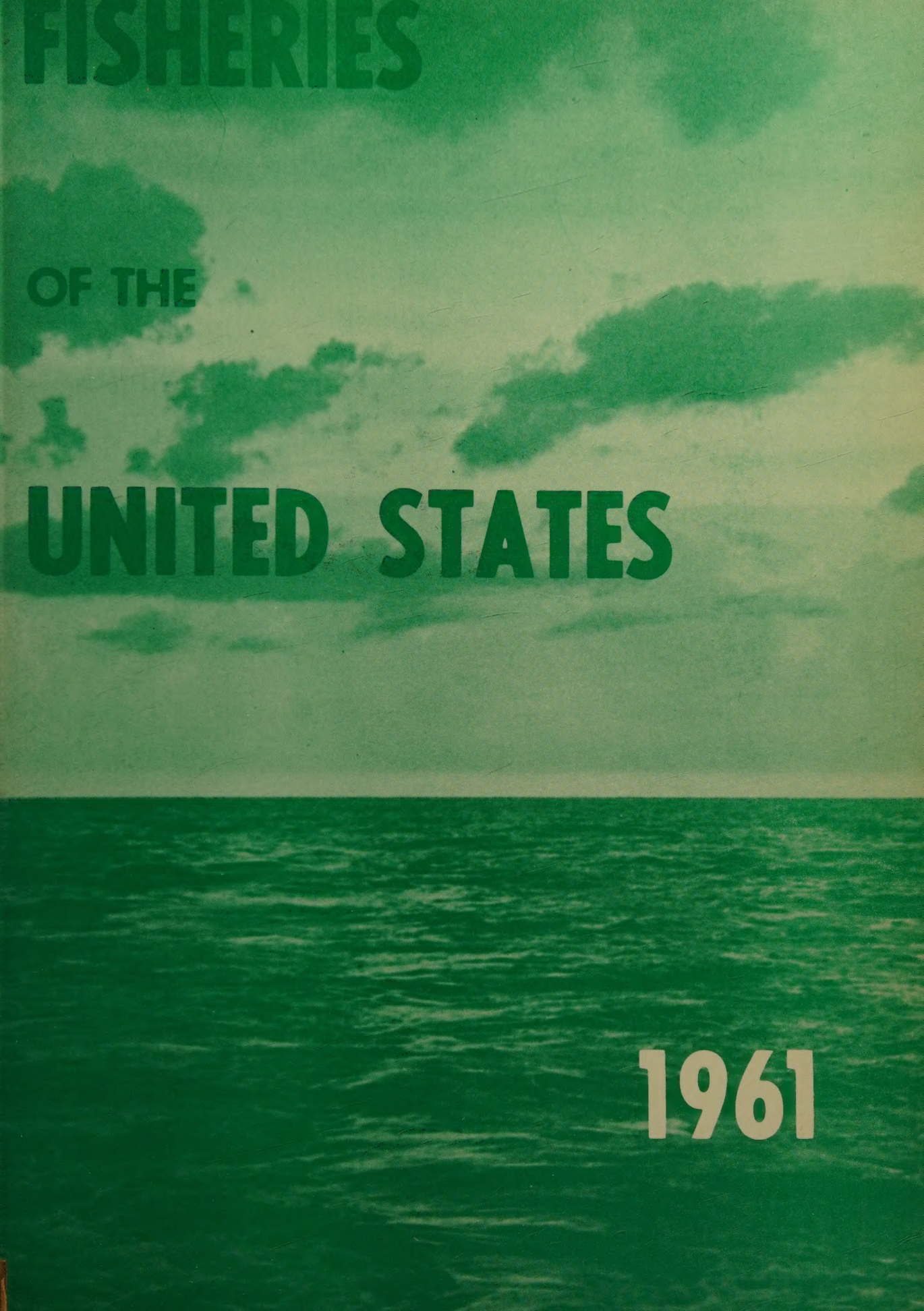
FISHERIES

OF THE

UNITED STATES



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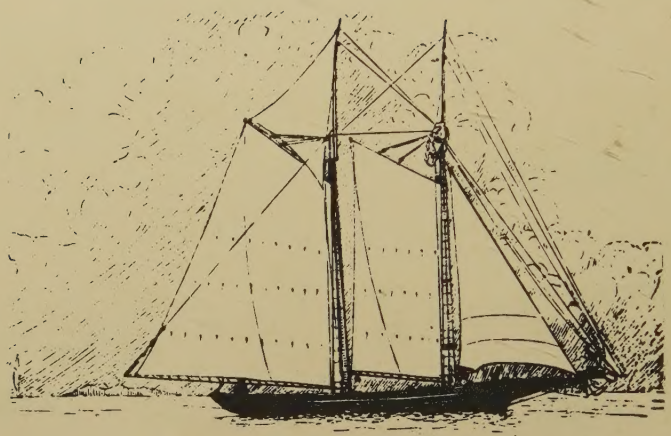

UNITED STATES DEPARTMENT OF THE INTERIOR, STEWART L. UDALL, SECRETARY

Fish and Wildlife Service, Clarence F. Pautzke, Commissioner

Bureau of Commercial Fisheries, Donald L. McKernan, Director

FISHERIES OF THE UNITED STATES

1961

(A Preliminary Review)

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by

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Chief, Branch of Statistics

Division of Resource Development

C. F. S. No. 2900

Washington 25, D. C.

April 1962

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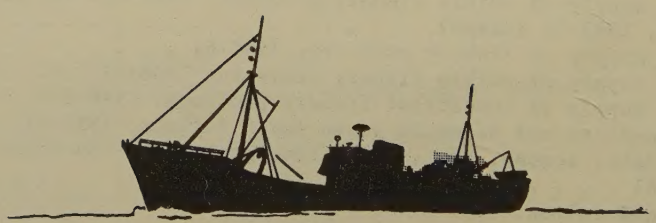
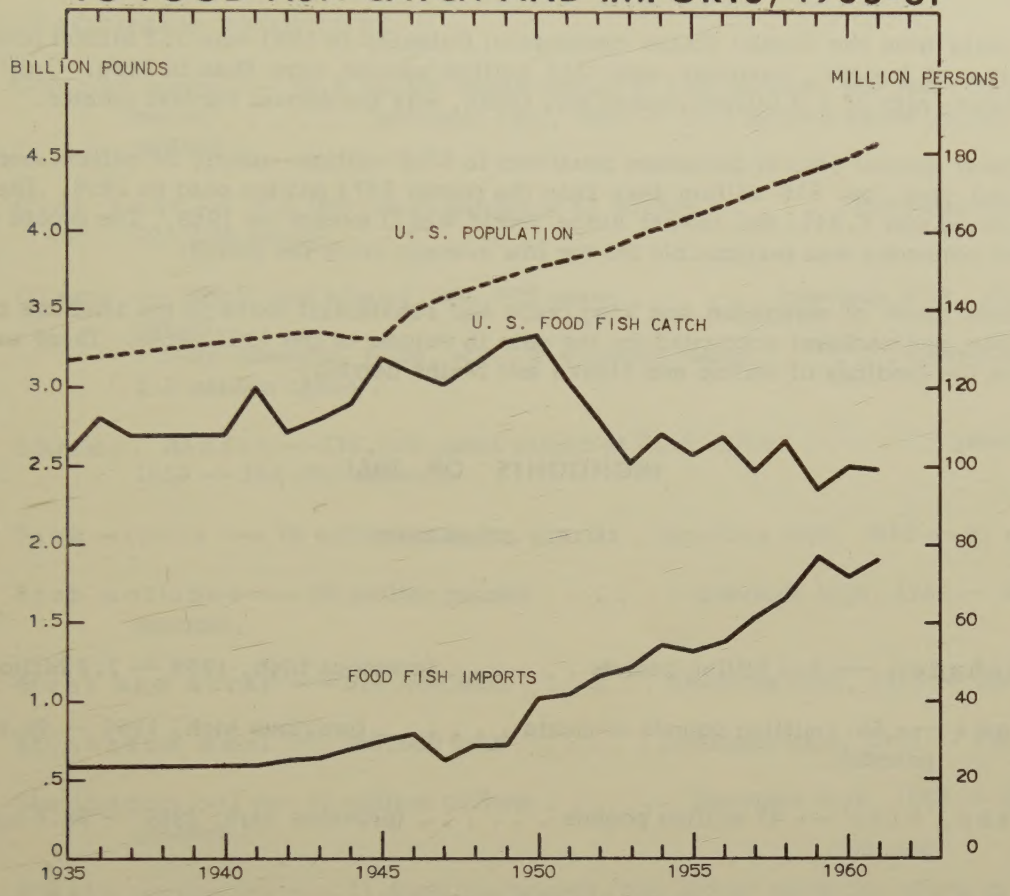


RELATIONSHIP OF UNITED STATES POPULATION TO FOOD FISH CATCH AND IMPORTS, 1935-61



REVIEW, 1961

The yield from the United States commercial fisheries in 1961 was 5.2 billion pounds--the nation's second largest. Landings were 213 million pounds more than in 1960. Only in 1956, when a record catch of 5.3 billion pounds was taken, was the annual harvest greater.

The total amount paid to fishermen amounted to $358 million--nearly $4 million more than in the previous year, but $15 million less than the record $373 million paid in 1958. The average price per pound was 6.94¢, the lowest since World War II except for 1959. The record catch of low-priced menhaden was responsible for the low average price per pound.

A record catch of menhaden and king crabs and substantial gains in the landings of Pacific salmon, tuna, and mackerel accounted for the gain in volume of the 1961 catch. There were sharp declines in the landings of shrimp and Alaska and Maine herring.

HIGHLIGHTS OF 1961

RECORDS ESTABLISHED

CATCH

- Menhaden --- 2.3 billion pounds . . . . . (previous high, 1959 -- 2.2 billion pounds).
- Clams --- 50.1 million pounds of meats . . . . . (previous high, 1960 -- 49.6 million pounds).
- Crabs, king --- 43 million pounds . . . . . (previous high, 1960 -- 28.6 million pounds).
- Scallops, sea --- 27.5 million pounds of meats . . . . . (previous high, 1960 -- 26.6 million pounds).
- Shrimp, Alaska --- 15.3 million pounds . . . . . (previous high, 1959 -- 13.1 million pounds).
- Whales --- 343 animals, the most since the rebirth of the United States industry in 1956 . . . . . (previous high, 1959 -- 309 animals).
- Gulf States landings --- 1.4 billion pounds, over 26 percent of the entire United States catch . . . . . (previous high for these waters, 1960 -- 1.3 billion pounds
- Louisiana landings --- 643 million pounds leading all other States in volume . . . . . (previous Louisiana record, 1960 -- 566 million pounds . . . . . alltime State record, California, 1936 -- 1,760 million pounds).
- World catch --- 83.2 billion pounds in 1960 . . . . . Japan in first place, China (Mainland) in second, followed by Peru, U.S.S.R., and the United States. In 1959, the United States ranked third.

MANUFACTURED PRODUCTS

- Canned tuna --- 15.8 million cases valued at $189 million, the sixth consecutive record . . . . . (previous high, 1960 -- 15.3 million cases valued at $173 million).

- Crab meat --- 255,000 cases valued at $7 million . . . . . (previous high, 1948 -- 221,000 cases).

- Clams --- Whole and minced, 460,000 cases . . . . . (previous high, 1959 -- 416,000 cases).
  Clam chowder, juice, etc., 1.4 million cases . . . . . (previous high, 1956 -- 1.3 million cases).

- Shrimp, Alaska---113,000 cases valued at $1.8 million . . . . . (previous high, 1959 -- 104,000 cases).

- Fish sticks --- 70 million pounds . , ... (previous high, 1960 -- 65 million pounds).

- Fish portions --- 60 million pounds . . . . . (previous high, 1960 -- 49 million pounds).

- Meal and scrap --- 311,000 tons . . . . . (previous high, 1959 -- 307,000 tons).

- Menhaden meal --- 248,000 tons . . . . . (previous high, 1959 -- 224,000 tons).

- Menhaden oil --- 31 million gallons . . . . . (previous high, 1960 -- 24 million gallons).

- Whale products --- 11.8 million pounds, the largest since the rebirth of the industry in 1956.

IMPORTS

- All fishery products --- 4.1 billion pounds (live-weight basis) . . . . . (previous high, 1959 -- 3.3 billion pounds. Both edible and nonedible imports established records.

- Groundfish and ocean perch fillets (including blocks and slabs) --- 195 million pounds . . . . . (previous high, 1959 -- 185 million pounds).

- Frozen albacore tuna --- 72 million pounds . . . . . (previous high, 1960 -- 70 million pounds).

- Scallops, sea --- 8.7 million pounds. . . . . (previous high, 1960 -- 6.9 million pounds).

- Lobsters, spiny --- 33 million pounds . . . . . (previous high, 1960 -- 32 million pounds).

- Shrimp --- 126 million pounds (heads-off weight) . . . . . (previous high, 1960 -- 113 million pounds).

IMPORTS - Continued

- Tuna, canned in brine --- 58 million pounds . . . . . (previous high, 1959 -- 55 million pounds).
- Lobsters, northern, canned --- 2.8 million pounds . . . . . (previous high, 1960 -- 2.4 million pounds).
- Oysters, canned --- 7.7 million pounds . . . . . (previous high, 1960 -- 7 million pounds).
- Fish meal and scrap --- 218 thousand tons . . . . . (previous high, 1952 -- 204 thousand tons).

SUPPLY (Domestic production plus imports)

- All fishery products --- 9.3 billion pounds (live-weight basis) . . . . . (previous high, 1959 -- 8.4 billion pounds).
- Edible fishery products --- 4.4 billion pounds (live-weight basis) . . . . . (previous high, 1958 -- 4.4 billion pounds).
- Industrial fishery products --- 4.9 billion pounds (live-weight basis) . . . . . (previous high, 1959 -- 4.1 billion pounds).
- Tuna, canned --- 369 million pounds . . . . . (previous high, 1960 -- 353 million pounds).
- Groundfish and ocean perch fillets (including blocks and slabs) --- 288 million pounds . . . . . (previous high, 1959 -- 276 million pounds).
- Fillets and steaks (other than groundfish) --- 134 million pounds . . . . . (previous high, 1957 -- 121 million pounds).
- Fish meal and solubles --- 589,000 tons (dry-weight basis for solubles) . . . . . (previous high, 1959 -- 537,000 tons).

OTHER IMPORTANT FACTS

- The menhaden catch, 2.3 billion pounds, accounted for 45 percent of the total United States catch of all species.
- Pacific salmon was the most valuable item taken by domestic fishermen in 1961. The ex-vessel value of the catch, $52 million, was $7.4 million more than in 1960. Shrimp had been the most valuable item since 1951.
- Louisiana led all other States in volume followed by California, Massachusetts, Alaska, and Virginia.
- California led all other States in value followed by Alaska, Massachusetts, Florida, and Texas.

- In 1961, for the second time, the catch taken for industrial products (2.7 billion pounds) exceeded the quantity taken for human food (2.5 billion pounds).

- Only 153 million pounds of shrimp (heads-on weight) were taken during 1961 in South Atlantic and Gulf waters. This was 35 percent less than in the previous year, 112 million pounds less than the record 266 million pounds in 1954, and the smallest catch since the early 1940's.

- Herring catches declined sharply. In Alaska, the catch of 49 million pounds was down 29 million pounds while in Maine, production totaled only 54.5 million pounds, 98 million pounds less than in 1960.

- Landings during the period June-September accounted for 3.1 billion pounds or 60 percent of the 1961 catch.

- The take of Pribilof Islands sealskins (96,315 skins) was the third largest harvest since 1890.

- The canned pack of tunalike fishes (159,000 cases) was the highest since 1953.

- The canned pack of Pacific and jack mackerel (1.4 million cases) was the fourth greatest in the history of the fishery and the largest since 1952.

- The 1961 pack of Pacific sardines (419,000 cases) was the fourth smallest since World War I. Conditions in Maine were not much better. The pack of Maine sardines (754,000 cases) was the smallest pack in 23 years.

- The canned pack of shrimp (619,000 cases) was down 35 percent. One bright side to this industry was on the Pacific Coast. There, the pack of 139,000 cases was up by 60,000 cases.

- Production of tuna and mackerel oil (763,000 gallons) was the second greatest in the history of the industry and the largest since 1950.

- Since 1950, imports of shrimp (heads-off weight) have increased from 40 million pounds to 126 million pounds or 214 percent. Fish meal and scrap increased from 64,000 tons to 218,000 tons or 241 percent.

- The United States supply of fishery products (live weight) has increased from 5.6 billion pounds in 1948 to 9.3 billion pounds in 1961 or 64 percent. The supply of edible products was up 14 percent and that of industrial products, 173 percent.

- For the second consecutive year, the United States canned pack from imports of frozen tuna declined. However, imported canned tuna set a record of 59 million pounds.

- In 1956, the United States ranked second only to Japan as a fishing nation. In 1960, it not only followed Japan but also China (Mainland), Peru, and the U.S.S.R. While the United States catch has remained at about the same level since 1955, Peru's catch has risen phenomenally from only 470 million pounds to 7.8 billion pounds. During the same 5-year period, Japan's catch increased 2.9 billion pounds and U.S.S.R. reported an increase of a little over 1 billion pounds.

- During 1961, a total of 101 loans having a total value of $2,598,236 were authorized under the Fishery Loan Program by the Bureau of Commercial Fisheries.

- Prices for most items advanced during 1961, and according to the "Wholesale Prices and Indexes for Edible Fishery Products," in December 1961, prices were 7.8 percent higher than in the same month of 1960. The greatest increases in wholesale prices were for canned Maine sardines, up 44.8 percent; and 26-30 count brown shrimp in 5-pound packages in Chicago, which were up 32.6 percent. Late in the year, substantial increases occurred in the price of fish meal and in the ex-vessel price of tuna.

- In 1961, the most productive stretch of water fished by United States fishermen was between Pascagoula, Mississippi, and Port Arthur, Texas. From the coastal waters between these cities, which are only 300 miles apart as the crow flies, over 1.1 billion pounds of fish and shellfish were taken--approximately 21 percent of the total United States catch. Nearly all of the catch was taken in sheltered coastal waters or within a few miles of the coastline. Menhaden, unclassified fish for animal food, crabs, oysters, and shrimp were the principal items. Quantities of anchovies, star butterfish (harvestfish), blackfin tuna, little tuna, mullet, scup, Spanish mackerel, and bluefish also occur in the area but are not fished.

MAJOR SPECIES

- Menhaden . . . . . The record catch of 2.3 billion pounds was the largest annual landings of a single item in the history of the United States fisheries. Receipts were 290 million pounds above those of the previous year and smashed the 1959 record by 105 million pounds. Menhaden accounted for 45 percent of the total domestic catch.

  Nineteen hundred and sixty-one was the 16th consecutive year in which menhaden was the leading species. Although landings were down in New England, they increased in all other aresa where the fishery is prosecuted. The tremendous expansion of menhaden operations in the Gulf of Mexico--landings exceeded 1.2 billion pounds in 1961--caused the total catch of all species from these waters to increase from only 4 percent of the United States catch in 1936 to 27 percent in 1960.

- Salmon, Pacific . . . . . Salmon, valued at $52 million, displaced shrimp as the most valuable species taken by domestic fishermen in 1961. The catch of 310 million pounds was 75 million pounds larger than in 1960 but was still 61 percent less than the record 791 million pounds landed in 1936. Most of the increase occurred in Alaska. The catch of red salmon in Western Alaska was the best since 1948, and the pink salmon catch in the northern waters of Southeastern Alaska was the largest since 1951. Prince William Sound had an excellent run of pink salmon which had not been expected. The Puget Sound catch was disappointing due to poor runs of red and pink salmon to the Fraser River.

- Tuna, Pacific . . . . . The tuna industry, stimulated by the success of converted seiners and the ever-rising consumption of canned tuna, continued to display its spectacular economic progress in 1961. Domestic fishermen caught 322 million pounds of fish (26 million more than in 1960 and the largest catch since 1950) and were paid higher prices than in 1960. Imports of fresh and frozen tuna were less than in 1960. Producers of canned tuna turned out the largest pack (15.8 million cases) in history.

The California tuna fleet, changed by conversion from a predominantly clipper fleet, fishing with hook and line, to a purse seine fleet fishing with huge nets, continued to take large quantities of yellowfin tuna. However, there were indications that this species was being overfished and considerable effort was devoted to fishing for skipjack tuna by the purse seine fleet. In 1961, the Inter-American Tropical Tuna Commission recommended that a catch limit be placed on yellowfin in order to maintain stocks at the maximum sustainable yield level.

- Groundfish . . . . . Despite a small overall increase in catch, the North Atlantic groundfish fishery continued in the depressed condition that has characterized this industry for the past decade. The combined catch of cod, haddock, hake, pollock, cusk, and ocean perch amounted to 339 million pounds--3 percent more than in 1960. Landings of haddock were up 15 million pounds, while receipts of ocean perch were 9 million pounds less. Prices remained low, and 68 percent of the supply of groundfish fillets was derived from imports.

- Mackerel, Pacific and jack . . . . . The catch of jack mackerel increased from 75 million pounds in 1960 to 99 million pounds in 1961 or 32 percent. Pacific mackerel was up from 37 million pounds to 39 million pounds or 6 percent. Mackerel was relatively plentiful, although fishermen found them in waters well offshore rather than in the customary inshore areas. Canners found it necessary to set catch quotas during virtually the entire season.

- Halibut . . . . . Receipts of halibut landed by United States fishermen at West Coast ports totaled 53 million pounds (round weight), 4 percent above that landed in 1960. Canadians took less fish than in the previous year. The United States-Canadian North Pacific landings of 93 million pounds (round weight) was 3 million less than the 1960 record production.

- Sardines, Pacific . . . . . The 1961 sardine season was one of the poorest on record and produced the fourth smallest canned pack since World War I. The catch (only 40 million pounds) was 17 million pounds less than in 1960 and only 3 percent of the record 1.5 million pounds taken in 1936. Canners were anxious for fish and prices were stable, but sardines failed to appear in volume off southern California. Fishermen reported the fish to be wild, making it impossible to take large catches on single sets.

- Herring, sea . . . . . Maine landings of herring, used principally for canning sardines, amounted to only 54 million pounds, a decrease of 98 million pounds compared with the previous year. Imports of herring into Maine from Canada also declined. There was no clear-cut explanation for the shortage of fish, but indications pointed to the failure of a year class. The industry was staggered by the shortest pack (754,000 cases) in 23 years. As a result of scarce supply, the Maine State Legislature extended the season an additional 5-1/2 months.

  In Alaska where herring are used for manufacture into meal and oil and as bait, the catch fell from 78 million pounds in 1960 to only 49 million pounds in 1961. The catch was the lowest since 1954 and one of the half dozen smallest catches since the early 1920's when there was a large expansion in the Alaska herring reduction industry.

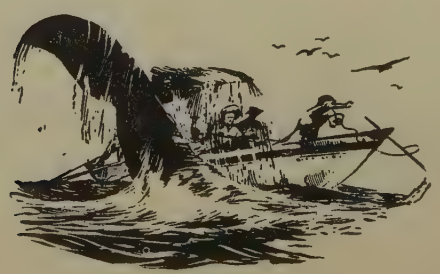
- Shrimp . . . . . The United States catch of shrimp amounted to 174 million pounds (heads-on weight). This was 30 percent less than in 1960 and 94 million pounds less than the record 268 million pounds in 1954. The decline occurred in the South Atlantic and Gulf States where a failure of the brown and white species of shrimp to appear in normal quantities and a slight decline in the pink species resulted in a near disaster. The catch for these States, amounting to 153 million pounds, was 84 million pounds less than in 1960 and the smallest on record since 1940. The catch in Alaska (15 million pounds) was up 106 percent over 1960, and production in other Pacific Coast States remained relatively stable.

- Oysters . . . . . Production amounted to only 59 million pounds of meats--1 million pounds less than in 1960 and only 39 percent of the 1908 production of 152 million pounds. Production was down in the New England, Chesapeake, and South Atlantic States. The catch was up in the Gulf States, and a heartening development was the increased harvest in New Jersey where the fishery had nearly been wiped out by disease.

- Crabs . . . . . The catch of crabs in 1961 totaled 221 million pounds, a slight improvement over 1960. However, landings of blue crabs along the Atlantic and Gulf Coasts and Dungeness crabs in the Pacific Coast States were considerably less than in the previous year. The gain was all in Alaska king crab production. The 1961 catch of these crabs (43 million pounds) and the canned pack (151,000 cases) were both 51 percent greater than in 1961.

PRINCIPAL PORTS

San Pedro, California, was the leading United States fishing port in 1961 with respect to both volume and value. Landings at this port amounted to 416 million pounds, having an ex-vessel value to the fishermen of $36 million. Pascagoula, Mississippi, was in second place with 354 million pounds; followed by Lewes, Delaware, 303 million pounds; Reedville, Virginia, 290 million pounds; Cameron, Louisiana, 252 million pounds; and Empire, Louisiana, 246 million pounds. Of these, all but San Pedro were entirely or principally menhaden ports. New Bedford, Massachusetts, occupied second place in value of landings with $15 million; followed by Boston, Massachusetts, $10 million; San Diego, California, $8 million; and Gloucester, Massachusetts, $6 million.



MANUFACTURED FISHERY PRODUCTS

- Canned fishery products . . . . . The pack of canned fishery products amounted to 33 million standard cases (1 billion pounds) valued at $424 million to the packers. Compared with the previous year, production was down 1.2 million cases (41 million pounds). However, the value was $37 million above that of the previous year. Increased production of high-value salmon, tuna, mackerel, crab meat, and clam products was responsible for the gain in value.

  The pack for human consumption was 48 million pounds above that of 1960, while the pack for bait and animal food was down 88 million pounds. The reduced pack of animal food is largely the result of a change in the classification of this item. Animal food containing less than 10 pounds of fish per standard case of 48 pounds (2,473,272 cases were packed in 1961) has been excluded from the pack of this item.

- Industrial fishery products . . . . . The production of industrial fishery products was valued at $74.5 million. Compared with 1960, this was an increase of $7.9 million.

  Marine animal scrap and meal production increased from 290,000 tons in 1960 to 311,000 tons in 1961 establishing a new record. Menhaden meal accounted for 80 percent of the total.

  Marine animal oil production amounted to over 34 million gallons in 1961. Compared with 1960, this was an increase of 6.5 million gallons. The 1961 production was the largest since 1939 when the California sardine fishery was at its peak. Menhaden oil (31.4 million gallons) accounted for 91 percent of the total 1961 production.

  Solubles and homogenized condensed fish production increased from 99,000 tons in 1960 to 111,000 tons in 1961 but was well below the 165,000 tons manufactured in 1959. Some firms added solubles to their meal. This caused production to be reported as meal rather than solubles.

  Other industrial products manufactured were valued at $22.8 million, about $1 million less than in 1960. These products include buttons and other items from mollusk shells, agar-agar, fish feed pellets and animal feeds, Irish moss extract, kelp products, liquid fertilizer, lime, pearl essence, and crab shells.

- Packaged fish . . . . . Production of fresh and frozen packaged fish fillets and steaks totaled 158 million pounds valued at $52 million to the processors. Compared with 1960, this represented an increase of 5 million pounds and $3 million. The domestic production of groundfish fillets amounted to 93 million pounds. This was 779,000 pounds less than produced in 1960 and 56 million pounds below the 148.8 million-pound peak production of 1951.

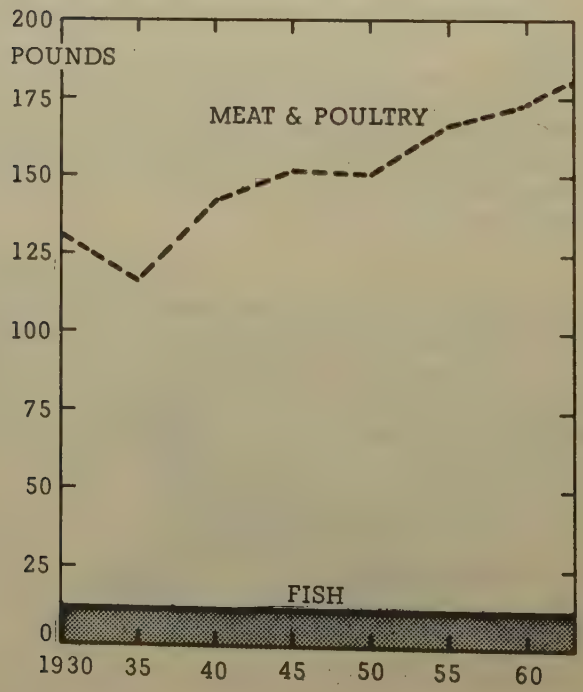
- Fish sticks and portions . . . . . Fish stick production totaled a record 70 million pounds. Fish portions also established a record of 60 million pounds. The growth of the fish stick and portion industry is an outstanding example of how markets for fish have been expanded through development of new products. Unfortunately, the development of the industry has not affected the domestic catch of groundfish since imported blocks of groundfish fillets are used almost entirely in the manufacture of sticks and portions.

FOREIGN TRADE

- Imports . . . . . Edible fishery products (1,062 million pounds) imported into the United States were 6 million pounds less than in 1960 and 52 million pounds below the record 1,114 million pounds received in 1959. Items received in considerably less volume included fresh herring, fresh and frozen tuna, canned salmon, and canned spiny lobster meat. Items received in greater volume included frozen groundfish and ocean perch fillets (including blocks), frozen shrimp, canned sardines, and tuna in brine. Imports of fish meal increased from 132,000 tons in 1960 to a record 218,000 tons in 1961. Imports of solubles (7,000 tons) were above those of the previous year but well below the record 27,000 tons received in 1959.

- Exports . . . . . Edible fishery products (40 million pounds) exported from the United States in 1961 were about 21 million pounds less than the 61 million pounds shipped abroad in 1960. The decline was due largely to reduced exports of canned salmon, sardines, shrimp, and squid. Exports of fish oils, amounting to 122 million pounds, were 21 million pounds less than in 1960.

PER CAPITA CONSUMPTION



SUMMARY OF FISHERIES, 1960-61

Item	1960		1961 1/	
Employment:	Number		Number	
Fishermen	130,431		(2)	
Fishing craft:				
Vessels (5 net tons and over)	12,018		(2)	
Boats	65,039		(2)	
Wholesale and manufacturing:				
Shoreworkers	93,625		(2)	
Plants	4,207		(2)	
Per capita consumption	Pounds 10.4		Pounds 10.9	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Catch:				
New England	851,964	61,474	762,700	60,700
Middle Atlantic	783,848	21,757	829,100	24,000
Chesapeake	435,797	34,861	464,500	33,000
South Atlantic	378,879	20,230	382,600	17,600
Gulf	1,265,950	85,459	1,367,200	74,200
Pacific	1,060,825	112,118	1,178,900	129,700
Great Lakes	68,243	7,133	68,200	7,100
Mississippi River	85,605	7,829	85,600	7,800
Hawaii	11,118	2,704	16,200	3,400
Total	4,942,229	353,565	5,155,000	357,500
Manufactured products:				
Canned:				
Human food	660,928	342,747	708,675	384,196
Bait and animal food	422,490	44,848	334,033	40,028
Packaged fish (fillets and steaks):				
Groundfish (including ocean perch)	93,818	25,333	93,039	26,068
Other	59,348	23,104	65,073	25,696
Total	153,166	48,437	158,112	51,764
Fish sticks	65,142	28,671	69,903	29,577
Fish portions	49,381	17,517	60,061	21,052
Byproducts:				
Meal	580,274	25,282	622,530	31,940
Solubles 3/	197,858	4,021	222,508	5,417
Oil	209,143	13,386	258,118	14,371
Foreign trade:				
Imports:				
Edible	1,067,460	307,380	1,061,663	335,757
Nonedible	-	52,685	-	63,428
Total	-	360,065	-	399,185
Exports:				
Edible	61,454	25,622	40,136	19,593
Nonedible	-	18,543	-	15,116
Total	-	44,165	-	34,709

1/ Preliminary.
2/ Data not available.
3/ Includes homogenized condensed fish.

UNITED STATES CATCH - Continued

CATCH OF CERTAIN SPECIES, 1960-61

Species	1960		1961 1/		Record production	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Fish						
Anchovies, California	5,059	74	7,100	90	1953	86,044
Cod, Atlantic	40,381	2,696	45,300	2,900	1880	294,351
Flounders	127,048	13,007	131,700	12,800	1948	138,924
Haddock	118,697	9,398	133,500	9,900	1929	293,809
Hake, white	5,785	262	5,200	200	1898	39,900
Halibut, Pacific	50,932	6,232	53,200	8,300	1915	66,707
Herring, sea:						
Alaska	77,913	835	48,600	500	1937	263,200
Maine	152,327	2,486	54,500	1,000	1950	185,481
Mackerel:						
Jack	74,945	1,582	98,900	2,100	1952	146,522
Pacific	36,810	757	39,100	800	1935	146,427
Menhaden	2,018,263	20,301	2,308,000	25,200	1961	2,308,000
Mullet	40,839	2,444	42,000	2,600	1902	43,385
Ocean perch, Atlantic	141,433	5,420	132,100	5,100	1951	258,320
Pollock	22,334	747	21,400	800	1938	40,694
Salmon, Pacific	235,447	44,730	310,400	52,100	1936	790,884
Sardine, Pacific	57,533	1,186	40,100	1,000	1936	1,502,299
Scup or porgy	49,229	2,732	45,300	2,800	1960	49,229
Sea trout	9,981	1,608	9,900	1,500	1908	49,869
Snapper, red	10,892	2,806	12,200	3,200	1902	23,457
Tuna, Pacific: 2/						
Albacore	40,211	5,942	32,000	5,900	1950	72,514
Bluefin	13,248	2,037	21,700	3,200	1958	32,315
Little	4	1	-	-	-	-
Skipjack	53,660	5,792	76,300	8,700	1954	167,777
Yellowfin	189,662	23,718	192,300	25,700	1948	207,420
Total	296,785	37,490	322,300	43,500	1950	401,809
Whiting	111,602	2,535	100,000	2,200	1957	133,041
Shellfish						
Clams	49,572	12,049	50,100	11,300	1961	50,100
Crabs:						
Blue	154,697	9,176	144,400	7,800	1960	154,697
Dungeness	36,157	5,333	33,900	5,200	1948	45,823
King	28,570	2,286	43,000	3,900	1961	43,000
Lobsters, northern	31,168	14,251	28,100	14,500	1960	31,168
Oysters (meats)	60,010	29,242	59,000	29,500	3/1908	152,046
Scallops, sea (meats)	26,599	9,266	27,500	10,400	1961	27,500
Shrimp: (heads-on)						
South Atlantic and Gulf States	236,939	66,143	153,400	50,500	1954	265,799
Alaska	7,436	297	15,300	600	1961	15,300
Washington	1,805	162	1,500	120	1958	6,730
Oregon	1,149	101	1,900	160	1959	2,734
California	2,028	204	2,000	200	1899	6,495
Other	95	25	100	20	-	-
Total	249,452	66,932	174,200	51,600	1954	268,316
Squid, California	2,562	72	5,600	100	1946	38,024
Other fish, shellfish, etc.	619,207	45,630	628,400	44,610	-	-
Grand total	4,942,229	353,565	5,155,000	357,500	1956	5,268,246

1/ Preliminary. 2/ Does not include landings of tuna by United States vessels in Puerto Rico.
3/ First year in which an oyster survey was made in all regions.

LANDINGS, 1960-61

Area	1960		1961 1/	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Maine:				
Portland	55,316	2,441	55,100	2,600
Rockland	43,929	1,838	44,600	1,900
Other ports	195,396	15,792	98,300	14,500
Total	294,641	20,071	198,000	19,000
Massachusetts: 2/				
Boston	110,384	9,627	117,000	9,500
Gloucester	192,406	6,330	163,100	6,000
New Bedford	85,119	13,164	102,000	14,800
Other ports	56,035	2,716	51,100	2,600
Total	443,944	31,837	433,200	32,900
Rhode Island	69,318	3,846	83,400	3,100
New York	125,932	8,781	123,600	9,100
New Jersey	373,688	9,607	397,200	10,900
Delaware	284,228	3,369	3/306,300	3/4,000
Maryland	69,113	13,936	63,700	12,500
Virginia	366,684	20,925	400,800	20,500
North Carolina	265,248	7,020	276,600	6,200
South Carolina	24,252	4,039	19,200	3,100
Georgia	27,968	3,391	20,500	3,000
Florida	196,946	26,828	187,700	25,200
Alabama	12,106	3,003	8,400	2,000
Mississippi	314,214	7,606	391,900	7,400
Louisiana	566,411	25,949	643,100	21,100
Texas	237,684	27,853	202,400	23,800
Ohio	17,983	1,628	15,800	1,300
Alaska:				
Halibut	28,404	3,110	33,400	4,800
Herring	77,913	835	48,600	500
Salmon	207,100	33,556	263,700	35,600
Crabs, king	28,570	2,286	43,000	3,900
Other	15,726	1,147	20,700	1,500
Total	357,713	40,934	3/409,400	3/46,300
Washington	113,115	15,551	3/117,100	3/18,800
Oregon	49,160	6,055	3/ 52,300	3/ 6,700
California 4/	530,575	48,906	590,300	57,200
Hawaii	11,118	2,704	16,200	3,400
Total	4,752,041	333,839	4,957,100	337,500
Other	190,188	19,726	3/197,900	3/20,000
Grand total	4,942,229	353,565	5,155,000	357,500

1/ Preliminary. 2/ Landed weight. 3/ Partly estimated. 4/ Excluding whale products.
Note:--Does not include landings of tuna by United States vessels in Puerto Rico.

UNITED STATES CATCH - Continued

CATCH OF FISH AND SHELLFISH, 1921-61

Year	Catch for human food	Catch for industrial products 1/	Total		Average price per pound
	Million pounds	Million pounds	Million pounds	Million dollars	Cents
1921	1,451	804	2,255	(2)	(2)
1922	1,677	942	2,619	(2)	(2)
1923	1,807	919	2,726	(2)	(2)
1924	1,874	587	2,461	(2)	(2)
1925	2,029	862	2,891	(2)	(2)
1926	2,198	673	2,871	(2)	(2)
1927	2,172	634	2,806	(2)	(2)
1928	2,370	691	3,061	(2)	(2)
1929	2,601	890	3,491	(2)	(2)
1930	2,478	746	3,224	109	3.39
1931	2,129	501	2,630	77	2.94
1932	1,864	748	2,612	56	2.13
1933	2,086	911	2,997	(2)	(2)
1934	2,434	1,670	4,104	(2)	(2)
1935	2,583	1,552	4,135	(2)	(2)
1936	2,854	1,972	4,826	(2)	(2)
1937	2,703	1,650	4,353	101	2.32
1938	2,639	1,615	4,254	94	2.20
1939	2,713	1,732	4,445	97	2.17
1940	2,674	1,385	4,059	99	2.44
1941	3,062	1,838	4,900	129	2.63
1942	2,683	1,192	3,875	170	4.40
1943	2,737	1,425	4,162	204	4.90
1944	2,865	1,668	4,533	213	4.70
1945	3,167	1,431	4,598	270	5.87
1946	3,049	1,418	4,467	313	7.01
1947	3,020	1,329	4,349	312	7.16
1948	3,146	1,367	4,513	371	8.22
1949	3,305	1,499	4,804	343	7.13
1950	*3,307	1,594	4,901	347	7.09
1951	3,048	1,385	4,433	365	*8.23
1952	2,778	1,654	4,432	364	8.20
1953	2,519	1,968	4,487	356	7.94
1954	2,705	2,057	4,762	359	7.55
1955	2,579	2,230	4,809	339	7.05
1956	2,690	2,578	*5,268	372	7.06
1957	2,475	2,314	4,789	354	7.39
1958	2,651	2,096	4,747	*373	7.86
1959	2,369	*2,753	5,122	346	6.76
1960	2,498	2,444	4,942	354	7.15
1961 3/	2,479	2,676	5,155	358	6.94

1/ Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.
2/ Not available.
3/ Preliminary.
* Record.

Note:--Does not include data on the Hawaiian catch prior to 1946.

LANDINGS AT CERTAIN UNITED STATES PORTS, 1961 1/

Port	Thousand pounds	Thousand dollars	Important species
San Pedro, California.	415,750	36,200	Tuna, mackerel, Pacific sardines
Pascagoula, Mississippi. . . .	354,000	(2)	Menhaden and other industrial fish
Lewes, Delaware.	303,000	(2)	Menhaden
Reedville, Virginia.	290,000	(2)	Menhaden
Cameron, Louisiana	252,000	(2)	Menhaden, shrimp
Empire, Louisiana.	246,000	(2)	Menhaden, shrimp, oysters
Beaufort, North Carolina . . .	174,000	(2)	Menhaden
Gloucester, Massachusetts. . .	163,100	6,000	Ocean perch, whiting, industrial fish
Port Arthur, Texas	135,000	(2)	Menhaden
Boston, Massaschusetts	117,000	9,500	Haddock, cod, pollock
New Bedford, Massachusetts . .	102,000	14,800	Flounders, sea scallops
San Diego, California.	63,000	8,300	Tuna
Portland, Maine.	55,600	2,700	Ocean perch, sea herring
Rockland, Maine.	44,200	1,900	Ocean perch, sea herring

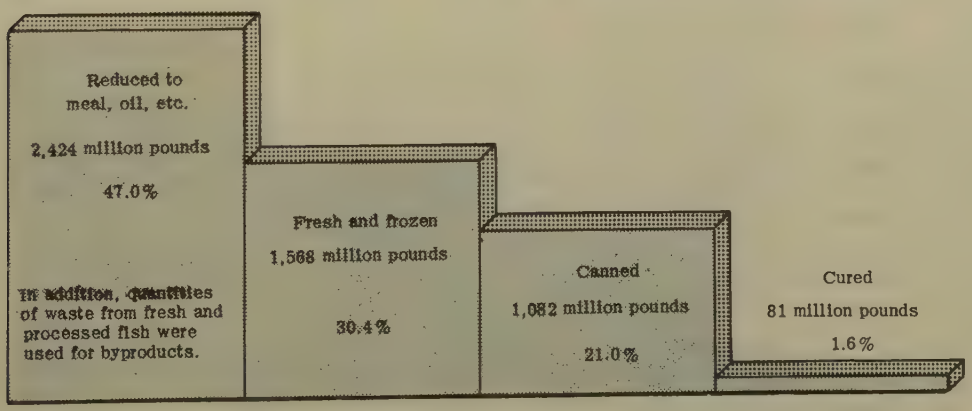
1/ Preliminary. 2/ Data not available.
Note:--The largest landings made at a United States port occurred in 1950 when 848 million pounds of fish and shellfish were landed in the San Pedro area. This catch was valued at $38 million which was likewise the greatest value ever received by fishermen for a catch landed at a United States fishing port in a single year.

DISPOSITION OF CATCH, 1960-61

End use	1960		1961 1/	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen.	1,631	33.0	1,568	30.4
Canned.	1,043	21.1	1,082	21.0
Cured	82	1.7	81	1.6
Reduced to meal, oil, etc..	2,186	44.2	2,424	47.0
Total.	4,942	100.0	5,155	100.0

1/ Preliminary.
Note:--Fresh and frozen and canned items include quantities used for bait and animal food.

DISPOSITION OF CATCH, 1961



CATCH BY MONTHS

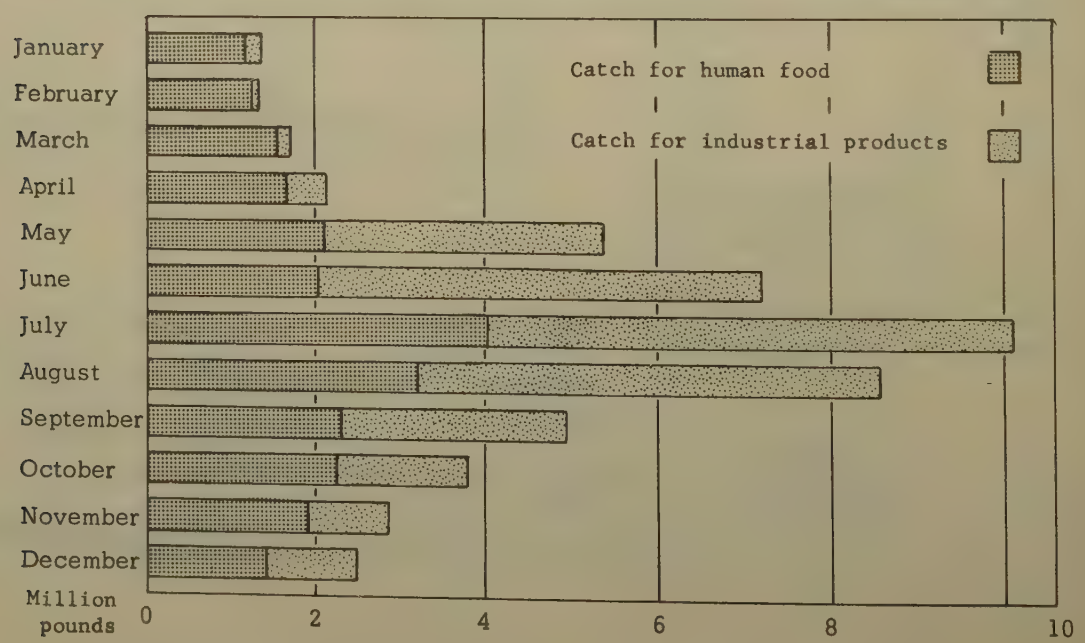
July was the peak month for both foodfish and industrial fish taken in the United States in 1961. During the period June-September, 46.3 percent of the year's foodfish and 71.7 percent of the industrial fish was caught. Total landings during this same period accounted for 59.5 percent of the 1960 catch. Sources from which data on current landings are obtained are shown in Fishery Leaflet 432, entitled "Fishery Statistical Publications of the Bureau of Commercial Fisheries," which is available free upon request from the Office of Information, U.S. Fish and Wildlife Service, Washington 25, D. C.

MONTHLY CATCH AND UTILIZATION OF FISH AND SHELLFISH, 1961

Month	Catch for human food		Catch for industrial products 1/		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	118.1	4.7	19.4	.7	137.5	2.7
February	126.6	5.1	10.7	.4	137.3	2.7
March	157.6	6.4	10.0	.4	167.6	3.2
April	163.7	6.6	50.2	1.9	213.9	4.1
May	209.5	8.4	320.3	12.0	529.8	10.3
June	200.1	8.1	518.1	19.4	718.2	13.9
July	399.1	16.1	603.9	22.5	1,003.0	19.5
August	317.0	12.8	538.1	20.1	855.1	16.6
September	232.3	9.4	258.1	9.6	490.4	9.5
October	222.3	9.0	153.9	5.8	376.2	7.3
November	189.3	7.6	88.3	3.3	277.6	5.4
December	143.4	5.8	105.0	3.9	248.4	4.8
Total	2,479.0	100.0	2,676.0	100.0	5,155.0	100.0

1/ Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.

MONTHLY CATCH AND UTILIZATION OF FISH AND SHELLFISH, 1961



DOMESTIC CATCH FROM WATERS OFF THE UNITED STATES AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1961

Area and species	Waters off U.S. Coasts	High seas off foreign coasts	Total
	Thousand pounds	Thousand pounds	Thousand pounds
Atlantic and Gulf States:			
New England:			
Cod	38,023	2,877	40,900
Cusk	1,595	305	1,900
Flounders	66,905	495	67,400
Haddock	112,950	20,450	133,400
Hake, white	4,652	448	5,100
Halibut	195	105	300
Ocean perch	31,321	100,779	132,100
Pollock	16,761	4,539	21,300
Whiting	93,194	6	93,200
Wolffish	431	169	600
Unclassified	266,407	93	266,500
Total	632,434	130,266	762,700
Middle Atlantic, Chesapeake, and South Atlantic States, unclassified	1,676,200	-	1,676,200
Gulf:			
Shrimp	99,732	34,068	133,800
Snapper, red	7,892	4,308	12,200
Unclassified	1,220,299	901	1,221,200
Total	1,327,923	39,277	1,367,200
Total Atlantic and Gulf States	3,636,557	169,543	3,806,100
Pacific Coast States:			
Alaska, Washington, and Oregon:			
Bottomfish (Washington and Oregon) 1/	48,760	23,840	72,600
Halibut	48,768	4,432	53,200
Salmon	299,862	1,838	301,700
Tuna, albacore	2,969	31	3,000
Unclassified	146,684	1,616	148,300
Total	547,043	31,757	578,800
California:			
Barracuda	282	418	700
Bonito	8,405	95	8,500
Groupers	-	200	200
Halibut, California	535	165	700
Rockfishes	9,400	2,000	11,400
Sea bass:			
Black	-	300	300
White	390	310	700
Sharks, unclassified	585	15	600
Tuna	37,245	269,855	307,100
Yellowtail	75	325	400
Unclassified	269,448	52	269,500
Total	326,365	273,735	600,100
Total Pacific Coast States	873,408	305,492	1,178,900
Great Lakes and Mississippi River States, unclassified	153,800	-	153,800
Hawaii	16,200	-	16,200
Grand total	4,679,965	475,035	5,155,000

1/ Principally cod, flounders (including sole), lingcod, ocean perch, rockfishes, and sablefish.

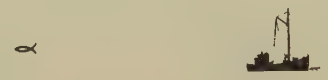
CATCH BY AREAS

During 1961, the commercial catch of fish and shellfish landed at ports on the Atlantic Coast amounted to 47 percent of the United States total. The Gulf States accounted for 27 percent and the Pacific Coast States, 23 percent. The remainder of the catch came from the Great Lakes, the Mississippi River area, and Hawaii.

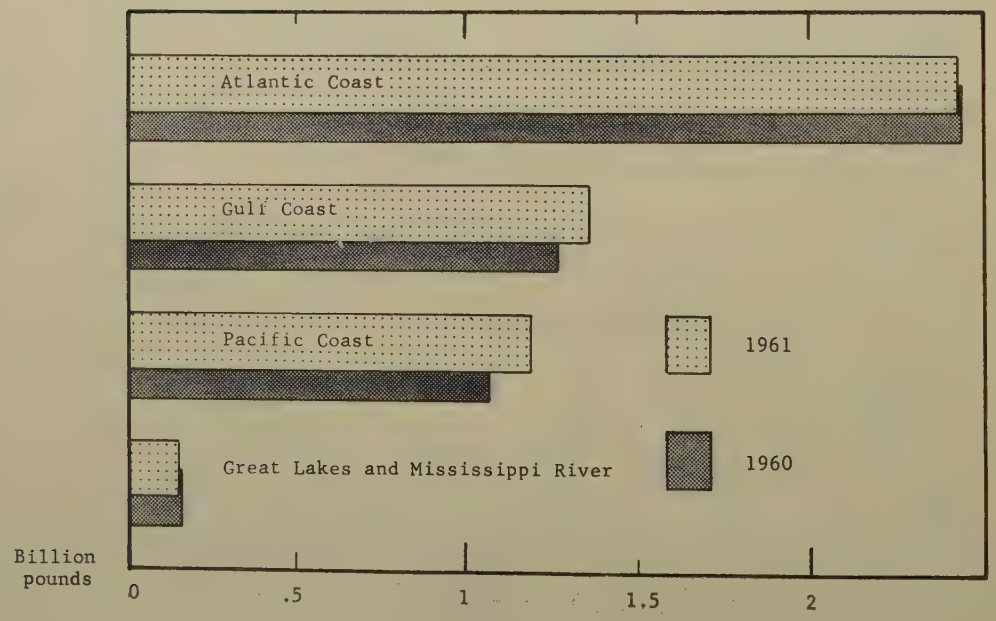
SUMMARY OF CATCH, BY AREAS, 1960-61

Area	1960		1961 1/	
	Million pounds	Percent	Million pounds	Percent
Atlantic Coast	2,450	49.6	2,439	47.3
Gulf Coast	1,266	25.6	1,367	26.5
Pacific Coast	1,061	21.5	1,179	22.9
Great Lakes and Mississippi River	154	3.1	154	3.0
Hawaii	11	.2	16	.3
Total	4,942	100.0	5,155	100.0

1/ Preliminary.



UNITED STATES CATCH BY AREAS, 1960-61



Note:--The catch for Hawaii is included with Pacific Coast.

Although there was relatively little change in the total United States catch during the years from 1936 to 1961, there was wide variation in the catch of various regions. The Atlantic Coast catch increased from 33 percent of the total to 50 percent in 1960 and then declined to 47 percent in 1961. During the same period, the Gulf catch increased from 4 percent of the total to 27 percent. The gain in these regions was due largely to the tremendous expansion of the menhaden fishery.

In Washington, Oregon, and California, the production declined from 40 percent of the total to 14 percent in 1960 and increased to 15 percent in 1961. Alaska accounted for only 8 percent of the total domestic catch in 1961 compared with 19 percent in 1936. The reduction was due mainly to the low level of the salmon fishery.

CATCH BY AREAS, VARIOUS YEARS, 1936-61
(Million pounds)

Area	1936	1940	1945	1950	1960	1961 1/
Atlantic Coast:						
Quantity	1,605	1,628	2,049	2,140	2,450	2,439
Percent	33	40	45	44	50	47
Gulf:						
Quantity	187	250	341	571	1,266	1,367
Percent	4	6	7	12	26	27
Washington, Oregon, and California:						
Quantity	1,926	1,453	1,428	1,515	703	770
Percent	40	36	31	31	14	15
Great Lakes and Mississippi River:						
Quantity	176	164	184	177	154	154
Percent	4	4	4	3	3	3
Alaska:						
Quantity	932	564	596	482	358	409
Percent	19	14	13	10	7	8
Hawaii:						
Quantity	(2)	(2)	(2)	16	11	16
Percent	-	-	-	-	-	-
Total	4,826	4,059	4,598	4,901	4,942	5,155

1/ Preliminary. 2/ Data not available.

QUANTITY OF GEAR USED AND CATCH BY GEAR, 1960

Type of gear	Number of gear	Catch		Principal species taken
		Thousand pounds	Percent of total	
Purse seines	2,085	2,524,524	51	Mackerel, menhaden, Pacific sardines, salmon, sea herring, tuna
Otter trawls	11,995	1,086,953	22	Crabs, groundfish, industrial fish, shrimp
Hooks and baits	10,400,361	298,026	6	Catfish, crabs, halibut, tuna
Gill nets	26,050	229,576	5	Lake fish, mullet, salmon, sea bass
Pots and traps	1,407,767	205,264	4	Crabs, crawfish, eels, lobster, mullet, sea bass
Pound nets and traps	8,302	115,035	2	Alewives, salmon
Dredges	8,601	113,810	2	Clams, crabs, oysters, sea scallops
Stop nets and seines	113	103,417	2	Carp, croaker, mullet, sea herring
Haul seines	1,207	79,643	2	
Other	-	185,981	4	-
Total	-	4,942,229	100	-

CATCH BY AREAS AND STATES, 1960

Area and state	Catch						Percentage in order of volume for principal catches of fish and shellfish
	Fish		Shellfish, etc.		Total		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
New England:							
Maine	263,432	6,631	31,209	13,440	294,641	20,071	Sea herring 52%, ocean perch 27%
New Hampshire	194	22	994	408	1,188	430	Northern lobster 79%
Massachusetts	449,628	24,760	30,793	11,187	480,421	35,947	Haddock 24%, whiting 18%, ocean perch 13%, flounders 11%
Rhode Island	64,111	1,969	5,207	1,877	69,318	3,846	Menhaden 35%, industrial fish 1/ 22%
Connecticut	5,198	367	1,198	813	6,396	1,180	Flounders 24%, scup or porgy 18%, whiting 11%
Total	782,563	33,749	69,401	27,725	851,964	61,474	
Middle Atlantic:							
New York	115,138	3,448	10,794	5,333	125,932	8,781	Menhaden 67%, scup or porgy 10%
New Jersey	342,875	6,073	30,813	3,534	373,688	9,607	Menhaden 82%
Delaware	280,915	2,777	3,313	592	284,228	3,369	Menhaden 99%
Total	738,928	12,298	44,920	9,459	783,848	21,757	
Chesapeake:							
Maryland	21,184	1,639	47,929	12,297	69,113	13,936	Blue crabs 43%, oysters 17%, clams 9%
Virginia	305,354	6,467	59,330	14,458	366,684	20,925	Menhaden 67%, blue crabs 11%
Total	328,538	8,106	107,259	26,755	435,797	34,861	
South Atlantic:							
North Carolina	242,375	3,857	22,873	3,163	265,248	7,020	Menhaden 72%
South Carolina	6,377	386	17,875	3,653	24,252	4,039	Shrimp 33%, blue crabs 29%, spot 11%
Georgia	1,567	240	26,401	3,151	27,968	3,391	Blue crabs 56%, shrimp 37%
Florida, East Coast	46,835	2,955	14,576	2,825	61,411	5,780	Menhaden 40%, catfish and bullheads 13%, blue crabs 11%
Total	297,154	7,438	81,725	12,792	378,879	20,230	
Total Atlantic Coast	2,147,183	61,591	303,305	76,731	2,450,488	138,322	

See footnote at end of table.

(Continued on next page)

CATCH BY AREAS AND STATES, 1960 - Continued

Area and state	Catch						Percentage in order of volume for principal catches of fish and shellfish
	Fish		Shellfish, etc.		Total		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Gulf:							
Florida, West Coast	67,815	6,219	67,720	14,829	135,535	21,048	Shrimp 33%, mullet 23%, crabs 14%
Alabama	3,268	570	8,838	2,433	12,106	3,003	Shrimp 59%, red snapper 14%, oysters 10%
Mississippi	297,975	4,002	16,239	3,604	314,214	7,606	Menhaden 70%, industrial fish 1/ 24%
Louisiana	485,011	6,804	81,400	19,145	566,411	25,949	Menhaden 83%, shrimp 11%
Texas	151,203	2,413	86,481	25,440	237,684	27,853	Menhaden 61%, shrimp 34%
Total	1,005,272	20,008	260,678	65,451	1,265,950	85,459	
Pacific:							
Alaska	316,419	37,796	41,294	3,138	357,713	40,934	Salmon 58%, sea herring 22%
Washington	94,065	12,102	19,050	3,449	113,115	15,551	Halibut 19%, salmon 15%, flounders 14%, oysters, 8%, crabs 6%
Oregon	38,157	4,476	11,003	1,579	49,160	6,055	Flounders 28%, Dungeness crabs 19%, rockfishes 15%
California:							
Fish and shellfish	508,498	45,080	22,077	3,826	530,575	48,906	Tuna 53%, jack and Pacific mackerel 21%, sardines 11%
Whale products	-	-	-	-	10,262	672	Meat 39%, oil 32%, meal 29%
Total	957,139	99,454	93,424	11,992	1,060,825	112,118	
Great Lakes:							
New York	590	105	-	-	590	105	Yellow perch 40%, bullheads 15%, white bass 12%, yellow pike 10%
Pennsylvania	1,015	113	-	-	1,015	113	Yellow perch 77%, white bass 19%
Ohio	18,011	1,632	-	-	18,011	1,632	Yellow perch 29%, sheepshead 28%, carp 18%
Michigan	25,021	2,997	-	-	25,021	2,997	Lake herring 27%, chubs 27%, carp 11%, smelt 9%
Indiana	16	1	-	-	16	1	Chubs 69%, yellow perch 31%
Illinois	324	54	-	-	324	54	Yellow perch 59%, chubs 34%
Wisconsin	18,392	1,934	2	(2)	18,394	1,934	Chubs 53%, lake herring 13%, yellow perch 10%
Minnesota	4,872	297	-	-	4,872	297	Lake herring 38%, tullibee 27%, smelt 12%
Total	68,241	7,133	2	(2)	68,243	7,133	

See footnote at end of table.

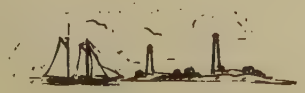
(Continued on next page)

CATCH BY AREAS AND STATES, 1960 - Continued

Area and state	Catch						Percentage in order of volume for principal catches of fish and shellfish
	Fish		Shellfish, etc.		Total		
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Mississippi River:							
Alabama	2,698	519	13,456	829	16,154	1,348	Mussel shells 83%, catfish 10%
Arkansas	5,399	687	637	46	6,036	733	Buffalofish 50%, carp 16%, catfish 15%, mussel shells 10%
Illinois	7,408	696	400	16	7,808	712	Carp 4[illegible]%, buffalofish 34%
Indiana	108	15	900	36	1,008	51	Mussel shells 89%
Iowa	3,817	370	-	-	3,817	370	Carp 43%, buffalofish 27%, catfish 16%
Kansas	60	8	-	-	60	8	Carp 70%, buffalofish 13%
Kentucky	2,104	277	1,356	54	3,460	331	Mussel shells 39%, catfish 17%, sheepshead 15%
Louisiana	7,287	959	970	382	8,257	1,341	Buffalofish 33%, catfish 32%
Minnesota	11,710	726	-	-	11,710	726	Carp 56%, bullheads 23%
Mississippi	2,185	309	9	19	2,194	328	Buffalofish 56%, catfish 26%, carp 13%
Missouri	344	35	-	-	344	35	Carp 46%, buffalofish 23%, catfish 14%
Montana	21	2	-	-	21	2	Buffalofish 100%
Nebraska	541	39	-	-	541	39	Carp 74%, bullheads 15%
North Dakota	827	35	-	-	827	35	Bullheads 50%, suckers 38%
Oklahoma	334	42	-	-	334	42	Buffalofish 34%, carp 33%
South Dakota	2,202	140	-	-	2,202	140	Carp 52%, buffalofish 41%
Tennessee	3,244	529	6,954	476	10,198	1,005	Mussel shells 68%, catfish 13%
Texas	709	91	12	1	721	92	Buffalofish 55%, carp 25%
Wisconsin	9,272	458	3	1	9,275	459	Carp 59%, sheepshead 24%
Wyoming	638	32	-	-	638	32	Carp 100%
Total	60,908	5,969	24,697	1,860	85,605	7,829	
Hawaii	11,070	2,674	48	30	11,118	2,704	Tuna 81%
Grand total	4,249,813	196,829	682,154	156,064	4,942,229	353,565	

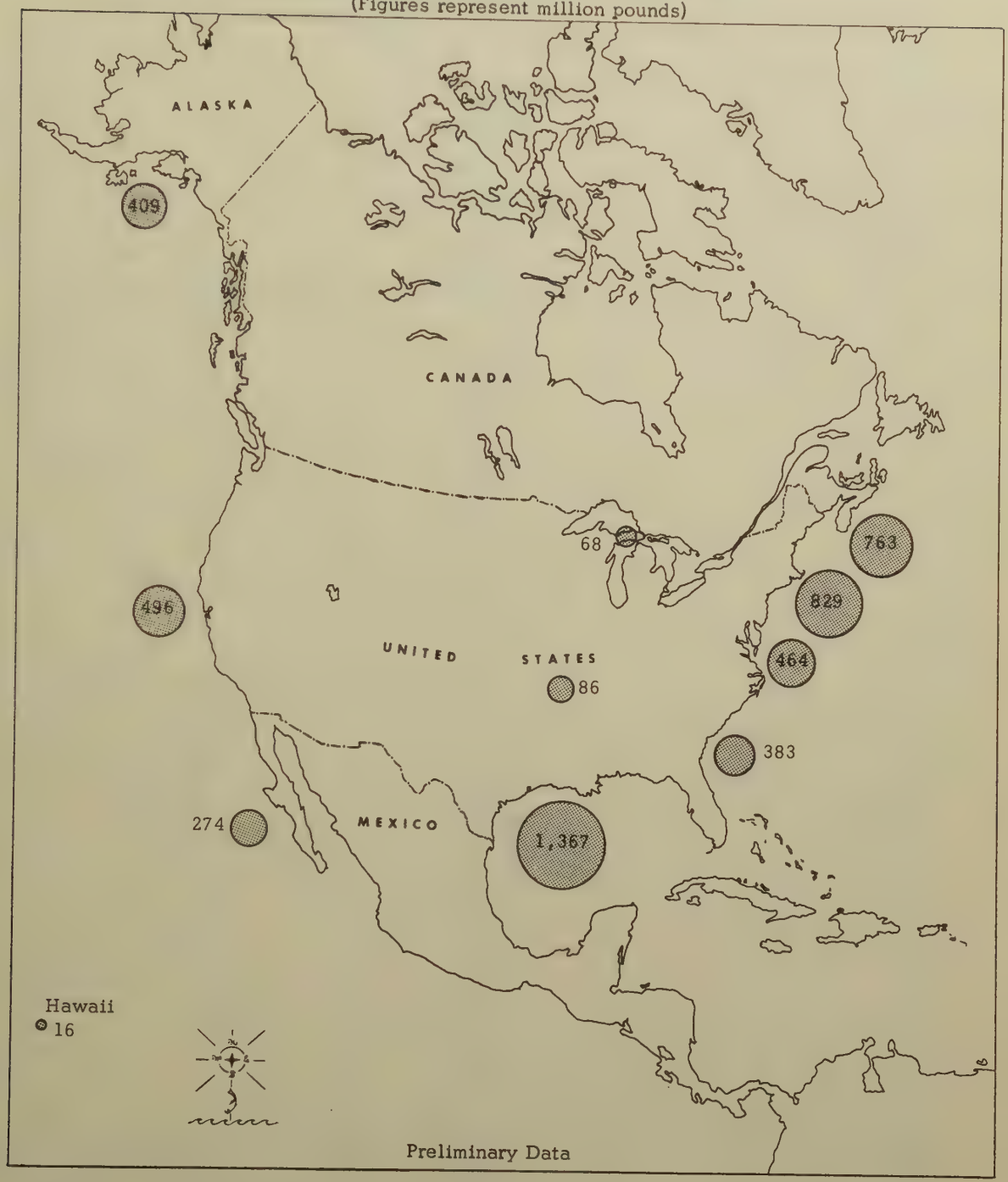
1/ Unclassified fish for bait, reduction, and animal food.

2/ Less than $500.



UNITED STATES CATCH BY AREAS, 1961

(Figures represent million pounds)



UNITED STATES CATCH - Continued

RELATIVE VOLUME OF THE CATCH, BY SPECIES, 1960

Species	Quantity	Percent of total	Record catch	
	Thousand pounds	Percent	Year	Thousand pounds
Menhaden	2,018,263	40.8	1959	2,202,732
Tuna	298,203	6.0	1950	391,454
Shrimp	249,452	5.0	1954	268,334
Herring, sea:				
Atlantic	155,198	3.1	1902	200,598
Pacific	83,820	1.7	1937	263,200
Total	239,018	4.8	-	-
Salmon	235,447	4.8	1936	790,884
Crabs	221,681	4.5	1960	221,681
Ocean perch, Atlantic	141,433	2.9	1951	258,320
Industrial fish 1/	137,389	2.8	1959	247,980
Flounders	127,048	2.6	1948	138,924
Haddock	118,697	2.4	1929	293,809
Whiting	111,602	2.3	1957	133,041
Jack mackerel	75,137	1.5	1952	146,522
Oysters	60,010	1.2	2/1908	152,046
Sardine, Pacific	57,534	1.2	1936	1,502,299
Alewives	53,595	1.1	1908	89,978
Halibut, Pacific	50,932	1.0	1915	66,707
Clams	49,572	1.0	1960	49,572
Scup or porgy	49,229	1.0	1960	49,229
Cod:				
Atlantic	40,381	.8	1880	294,351
Pacific	5,372	.1	1915	32,681
Total	45,753	.9	-	-
Mullet	40,839	.8	1902	43,385
Mackerel, Pacific	36,810	.8	1935	146,727
Catfish and bullheads	34,832	.7	1960	34,832
Carp	31,513	.6	1908	42,659
Lobsters, northern	31,168	.6	1960	31,168
Rockfishes	27,286	.6	1945	57,686
Scallops, sea	26,599	.5	1960	26,599
Mussel shells	23,655	.5	1908	81,869
Pollock	22,334	.5	1938	40,694
Chubs	16,854	.3	1960	16,854
Buffalofish	16,796	.3	1950	25,873
Herring, thread	12,402	.3	1957	15,554
Sablefish	11,325	.2	1945	17,750
Herring, lake	11,083	.2	1899	59,914
Spot	11,063	.2	1952	15,863
Butterfish	10,991	.2	1939	17,151
Sheepshead, fresh-water	10,990	.2	1959	13,644
Snapper, red	10,892	.2	1902	23,457
Yellow perch	10,597	.2	1934	16,282
Whale products 3/	10,262	.2	(4)	(4)
Hake, red	8,999	.2	-	-
Ocean perch, Pacific	8,842	.2	1954	11,171
Striped bass	8,580	.2	1960	8,580
Lingcod	7,926	.2	1944	14,262
Spanish mackerel	7,894	.2	1945	11,593
Unclassified	151,702	3.1	-	-
Total	4,942,229	100.0	1956	5,268,246

1/ Unclassified species for bait, reduction, and animal food.
2/ First year in which oyster survey was made in all Regions.
3/ Since data are not available on the poundage of whales taken, statistics on the yield of these mammals represent the weight of the whale products produced which include meal, meat, and oil.
4/ Data not available.

RELATIVE VALUE OF THE CATCH, BY SPECIES, 1960

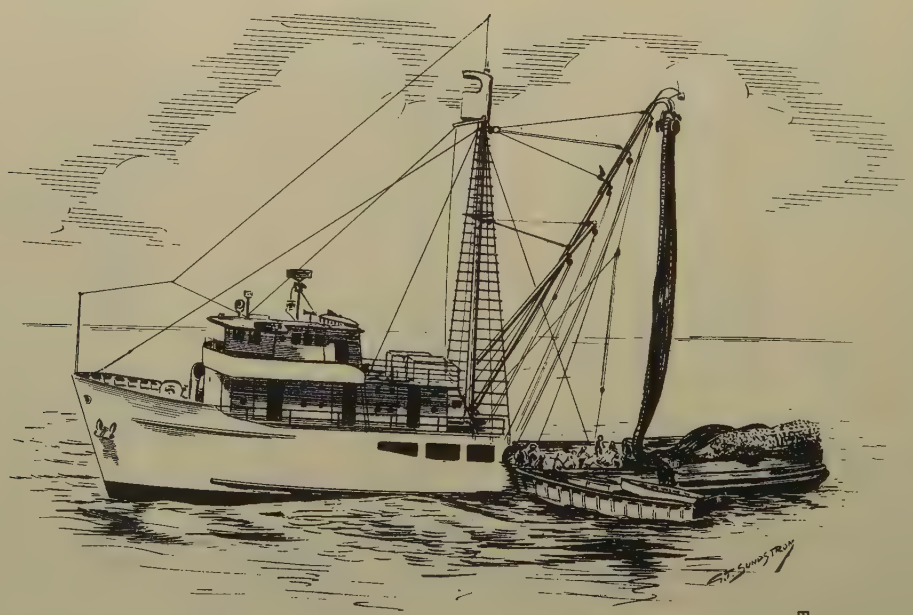
Species	Value	Percent of total	Record value	
	Thousand dollars	Percent	Year	Thousand dollars
Shrimp	66,932	18.9	1953	76,641
Salmon	44,730	12.7	1951	52,509
Tuna	37,571	10.6	1950	61,342
Oysters	29,242	8.3	1954	32,796
Menhaden	20,301	5.7	1956	28,425
Crabs	17,068	4.8	1960	17,068
Lobsters, northern	14,251	4.0	1959	14,468
Flounders	13,007	3.7	1951	13,253
Clams	12,049	3.4	1960	12,049
Haddock	9,398	2.7	1946	13,043
Scallops, sea	9,266	2.6	1959	11,805
Halibut, Pacific	6,232	1.8	1956	9,013
Catfish and bullheads	5,608	1.6	1952	6,411
Ocean perch, Atlantic	5,420	1.5	1951	12,597
Herring, sea:				
Atlantic	2,542	.7	1948	3,798
Pacific	994	.3	1947	2,152
Total	3,536	1.0	-	-
Cod:				
Atlantic	2,696	.8	1948	4,742
Pacific	263	.1	1959	664
Total	2,959	.9	-	-
Snapper, red	2,806	.8	1959	2,888
Scup or porgy	2,732	.8	1951	2,994
Chubs	2,551	.7	1958	2,564
Whiting	2,535	.7	1951	2,903
Mullet	2,444	.7	1945	4,647
Industrial fish 1/	2,108	.6	1959	2,632
Buffalofish	1,961	.6	1952	3,564
Jack mackerel	1,664	.5	1952	4,755
Scallops, bay	1,474	.4	1960	1,474
Mussel shells	1,378	.4	-	-
Lobsters, spiny	1,344	.4	1957	1,500
Striped bass	1,338	.4	1959	1,436
Sea trout or weakfish, spotted	1,294	.4	1952	1,781
Rockfishes	1,264	.4	1945	2,648
Sardine, Pacific	1,186	.3	1950	12,140
Yellow perch	1,165	.3	1958	1,540
Shad	1,141	.3	1945	2,680
Sablefish	1,087	.3	1946	1,834
Sea bass, black (Atlantic)	1,071	.3	1952	2,206
Carp	1,024	.3	1951	2,007
Croaker	983	.3	1945	6,950
Butterfish	900	.2	1958	971
Yellow pike	843	.2	1951	2,152
Groupers	805	.2	1945	1,038
Spot	805	.2	1949	975
Spanish mackerel	761	.2	1945	1,521
Mackerel, Pacific	757	.2	1957	1,231
Pollock	747	.2	1945	1,819
Unclassified	15,827	4.5	-	-
Total	353,565	100.0	1958	373,311

1/ Unclassified species for bait, reduction, and animal food.

EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1930-60

Item	1930	1940	1950	1959	1960
	Number	Number	Number	Number	Number
Persons employed:					
Direct:					
Fishermen	119,716	124,795	161,463	128,985	130,431
Transporters	4,501	3,955	4,916	2,251	2,111
Shoreworkers	78,996	90,215	102,015	92,650	93,625
Indirect:					
Allied industries (gear, manufacture, boat building, processing equipment, etc.)	200,000	210,000	300,000	310,000	313,000
Total	403,213	428,965	568,394	533,886	539,167
Craft utilized:					
Fishing:					
Vessels (5 net tons and over)	4,374	5,562	11,496	12,109	12,018
Motor boats	35,437	31,055	46,067	54,735	56,889
Other boats	37,961	35,193	34,747	8,457	8,150
Transporting:					
Vessels (5 net tons and over)	1,419	1,325	1,313	883	891
Motor boats	1,363	726	827	282	203
Total	80,554	73,861	94,450	76,466	78,151
Vessels documented for fishing:					
First documentation	(1)	320	812	479	408
Redocumentation	(1)	(1)	29	34	24
Total	(1)	(1)	841	513	432
Fishery shore establishments:					
Pacific Coast States	569	579	700	545	515
Atlantic Coast and Gulf States	2,024	2,038	2,699	2,934	2,898
Great Lakes and Mississippi River States	402	438	484	872	772
Hawaii	(1)	(1)	(1)	21	22
Total	2,995	3,055	3,883	4,372	4,207

1/ Data not available.



Tuna purse seiner

PRIBILOF ISLANDS SEALSKINS

TAKE AND AVERAGE VALUE OF PRIBILOF ISLANDS SEALSKINS, 1956-61

Year	Male		Female		Total
	Number	Average value 1/	Number	Average value 1/	Number
1956	95,849	$99.95	26,977	-	122,826
1957	46,195	68.22	47,423	-	93,618
1958	47,860	85.28	31,059	-	78,919
1959	30,176	102.20	27,634	-	57,810
1960	36,320	103.31	4,296	$35.69	40,616
1961	82,197	86.69	14,118	41.05	96,315

1/ Average value received per sealskin at fall auction.
Note:--Large numbers of female sealskins have been taken since 1955. Few were sold prior to 1960. Studies are being continued as to the best method of disposal of these skins.

WHALING

WHALE CATCH, 1961

Month	Blue	Bottlenose	Fin	Humpback	Sei	Sperm	Total
	Number	Number	Number	Number	Number	Number	Number
April	-	-	-	8	-	16	24
May	-	-	37	19	-	12	68
June	-	1	19	17	-	13	50
July	-	3	30	4	11	7	55
August	-	-	32	7	26	17	82
September	-	-	-	2	7	21	30
October	2	-	-	7	7	18	34
Total, 1961	2	4	118	64	51	104	343
Total, 1960	1	2	138	67	47	16	271

WHALE PRODUCTS, 1961

Item	Quantity	Value
	Thousand pounds	Thousand dollars
Meal	3,317	203
Meat	5,010	401
Oil:		
Sperm	696	63
Whale	2,774	179
Solubles, condensed	27	1
Total, 1961	11,824	847
Total, 1960	10,262	672

Note:--To convert pounds of oil to gallons, divide by 7.5.

The per capita consumption of fish and shellfish in the United States amounted to 10.9 pounds (edible weight). Consumption of canned and fresh and frozen items in 1961 showed an increase over the 3 previous years. During the same period there was no change in the consumption of cured products.

PER CAPITA CONSUMPTION OF FISH AND SHELLFISH, 1958-61

(Edible weight)

Item	1958	1959	1960 1/	1961 2/
	Pounds	Pounds	Pounds	Pounds
Fish and shellfish:				
Fresh and frozen	5.8	5.9	5.8	6.0
Canned	4.2	4.2	4.0	4.3
Cured	0.6	0.6	0.6	0.6
Total	10.6	10.7	10.4	10.9

1/ Revised. 2/ Preliminary.

UNITED STATES PER CAPITA SUPPLY OF CERTAIN FISHERY ITEMS, VARIOUS YEARS, 1936-61

(Pounds of edible meat)

Year	Mackerel, Pacific and jack	Salmon	Sardines, Pacific and Maine 1/	Tuna 2/	Groundfish and ocean perch fillets and blocks 3/	Shrimp 4/
	Canned	Canned	Canned	Canned	Raw, fresh and frozen	Raw, all preparations
1936	0.43	3.07	1.26	0.45	0.74	0.35
1937	0.29	2.43	1.16	0.50	0.74	0.45
1938	5/0.33	2.32	0.81	0.49	0.77	0.45
1939	5/0.30	1.89	1.29	0.63	0.79	0.48
1940	5/0.48	1.61	0.77	0.61	0.81	0.52
1946	5/0.24	1.18	1.03	0.69	1.13	0.75
1947	5/0.47	1.46	0.64	0.79	1.13	0.69
1948	5/0.32	1.57	1.34	0.89	1.25	0.68
1949	0.26	1.70	1.00	0.90	1.31	0.71
1950	0.41	1.36	1.55	1.32	1.29	0.78
1951	0.26	1.44	0.40	1.05	1.56	0.91
1952	0.42	1.43	0.37	1.28	1.44	0.97
1953	0.14	1.25	0.60	1.38	1.38	0.96
1954	0.09	1.27	0.85	1.39	1.48	0.98
1955	0.15	0.99	0.39	1.42	1.49	1.02
1956	0.29	1.15	0.35	1.59	1.39	0.98
1957	0.25	1.01	0.45	1.59	1.52	0.87
1958	0.11	1.08	0.59	1.78	1.49	0.95
1959	0.14	0.95	0.61	1.89	1.45	1.14
1960	0.18	0.72	0.47	2.05	1.44	1.19
1961 6/	0.25	0.79	0.48	2.08	1.61	1.12

1/ Includes imports of some herring for the years prior to 1950. 2/ Includes imports of bonito and yellowtail for the years prior to 1949. Data on exports were not available for these years. 3/ Imports and frozen inventories not available prior to 1939. 4/ Frozen inventories not available prior to 1939. Weight based on uncooked edible meat. 5/ Exports not available. 6/ Preliminary.

Note:--This table was compiled from available data on domestic production, imports, and exports. In addition, inventory records of frozen items were used in compiling data on shrimp, and groundfish (including ocean perch) fillets and blocks; estimated packers' canned inventories were used for tuna for all years, and for mackerel, salmon, and sardines for 1958-60.

WHOLESALE AVERAGE PRICES AND INDEXES FOR EDIBLE FISH AND SHELLFISH, DECEMBER 1961

Group, subgroup, and item specification	Point of pricing	Unit	Avg. prices 1/ ($)		Indexes (1947-49=100)			
			Dec. 1961	Nov. 1961	Dec. 1961	Nov. 1961	Oct. 1961	Dec. 1960
All fish & shellfish (fresh, frozen, and canned)					143.6	141.1	138.1	133.2
Fresh & frozen fishery products					158.9	154.6	153.0	150.0
Drawn, dressed, or whole finfish:					163.8	153.0	152.5	173.6
Haddock, lge., offshore, drawn, fresh	Boston	lb.	.14	.10	141.8	98.5	107.2	178.0
Halibut, west., 20/80 lbs., dressed, fresh or frozen	New York	lb.	.36	.35	109.8	108.3	107.3	92.8
Salmon, king, lge. & med., dressed, fresh or frozen	New York	lb.	.86	.85	193.8	191.0	191.0	202.2
Whitefish, Lake Superior, drawn, fresh	Chicago	lb.	.63	.83	156.2	204.6	171.1	185.9
Yellow pike, Lake Michigan & Huron, round, fresh	New York	lb.	.64	.48	148.9	111.4	105.5	117.3
Processed, fresh (fish & shellfish):					161.5	158.8	158.6	146.8
Fillets, haddock, small, skins on, 20-lb. tins	Boston	lb.	.32	.34	107.2	115.7	108.9	175.2
Shrimp, large (26-30 count), headless, fresh	New York	lb.	.92	.88	144.6	138.3	136.7	114.5
Oysters, shucked, standards	Norfolk	gal.	7.88	7.88	194.9	194.9	198.0	185.6
Processed, frozen (fish & shellfish):					133.7	133.9	130.5	115.0
Fillets: Flounder, skinless, 1-lb. package	Boston	lb.	.39	.39	100.8	100.8	100.8	102.1
Haddock, small, skins on, 1-lb. package	Boston	lb.	.33	.35	103.6	109.9	103.6	106.7
Ocean perch, large, skins on 1-lb. package	Boston	lb.	.31	.30	124.9	120.8	120.8	118.8
Shrimp, large (26-30 count), brown, 5-lb. package	Chicago	lb.	.92	.90	141.2	138.1	135.8	106.5
Canned fishery products:					121.9	121.8	117.1	109.8
Salmon, pink, No. 1 tall (16 oz.), 48 cans/cs.	Seattle	cs.	28.00	28.00	146.1	148.1	148.1	143.5
Tuna, light meat, chunk, No. 1/2 tuna (6-1/2 oz.), 48 cans/cs.	Los Angeles	cs.	12.15	12.15	87.6	87.6	84.0	79.3
Sardines, California, tom. pack, No. 1 oval (15 oz.), 24 cans/cs.	Los Angeles	cs.	5.00	4.90	116.7	114.4	114.4	89.8
Sardines, Maine, keyless oil, 1/4 drawn (3-3/4 oz.), 100 cans/cs.	New York	cs.	12.31	12.31	131.0	131.0	109.7	90.5

1/ Represent average prices for one day (Monday or Tuesday) during the week in which the 15th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Daily Market News Service "Fishery Products Reports" should be referred to for actual prices.

Source: U.S. Department of Labor, Bureau of Labor Statistics.

CANNED PACK

The total pack of canned fishery products in the United States, American Samoa, and Puerto Rico during 1961 amounted to 33.4 million standard cases valued at $424.2 million to the packers. Compared with 1960, this was a decrease of 3 percent in volume but an increase of 9 percent in value. Canned tuna, crab meat, and clam products established new production records. The canned packs of salmon, mackerel, and oysters also showed a gain over the 1960 production. The packs of Maine and Pacific sardines, shrimp, and animal food were less than in the previous year.

PACK OF CERTAIN CANNED PRODUCTS, 1960-61

Item	Pounds per case	1960	1961 1/	Record pack	
		Thousand standard cases	Thousand standard cases	Year	Thousand standard cases
Tuna	(2)	15,305	15,768	1961	15,768
Salmon	48	2,834	3,697	1936	8,965
Sardines:					
Maine	23.4	1,997	754	1950	3,844
Pacific	45	616	419	1950	5,071
Mackerel, jack and Pacific	45	935	1,378	1947	1,755
Crab meat	19.5	211	255	1961	255
Shrimp	15	951	619	1937	1,435
Clams:					
Whole and minced	15	385	460	1961	460
Chowder and juice	30	1,316	1,444	1961	1,444
Oysters	14	411	446	1937	760
Animal food and bait	48	8,802	6,959	1960	8,802
Other	Various	798	1,195	-	-
Total	-	34,561	33,394	-	-

1/ Preliminary. 2/ Solid, 21 pounds; chunk, 19.5 pounds; and flakes and grated, 18 pounds.
Note:--Includes tuna canned in American Samoa and Puerto Rico.

PRODUCTION OF CANNED FISHERY PRODUCTS, VARIOUS YEARS, 1936-61

Year	For human consumption		For animal food and bait		Total
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand dollars
1936	756,593	93,759	12,980	805	94,564
1940	646,130	92,192	35,064	1,990	94,182
1948	718,665	329,210	63,543	6,971	336,181
1949	762,291	286,841	92,724	8,663	295,504
1950	*836,485	317,464	130,630	13,871	331,335
1951	687,999	289,534	112,410	11,676	301,210
1952	641,604	290,161	167,891	15,668	305,829
1953	605,894	289,526	186,300	17,348	306,874
1954	669,209	312,598	193,314	18,420	331,018
1955	586,755	274,967	256,941	28,198	303,165
1956	655,986	316,082	321,777	33,434	349,516
1957	639,965	300,750	347,637	35,079	335,829
1958	733,519	345,616	361,083	42,966	388,582
1959	622,150	310,262	346,985	37,989	348,251
1960	660,928	342,747	*422,490	*44,848	387,595
1961 1/	708,675	*384,196	334,033	40,028	*424,224

1/ Preliminary. *Record.

FISH MEAL, OIL, AND SOLUBLES

A total of 311,000 tons of fish meal was produced in the United States, American Samoa, and Puerto Rico in 1961. The production was 21,000 tons more than in 1960 and exceeded the previous record established in 1959 by nearly 5,000 tons. Menhaden meal comprised 80 percent of the total production of fish meal. Compared with 1960, the yield of Pacific sardine meal was down nearly 1,000 tons; herring meal, down 4,000 tons; and tuna and mackerel meal, 5,000 tons less.

Production of fish and fish liver oils in the United States and Puerto Rico totaled nearly 35 million gallons in 1961. The production was 23 percent above that of 1960 but below the record 40 million gallons produced in 1936. The 1961 catch of menhaden (the largest in history) was the major species used in the production of oils. Menhaden oil established a new record and accounted for 91 percent of the 1961 production.

The yield of homogenized condensed fish (nearly 12,000 tons) was about 2,000 tons above that of 1960. Production of fish solubles (100,000 tons) was about 10,000 tons larger than reported in 1960.

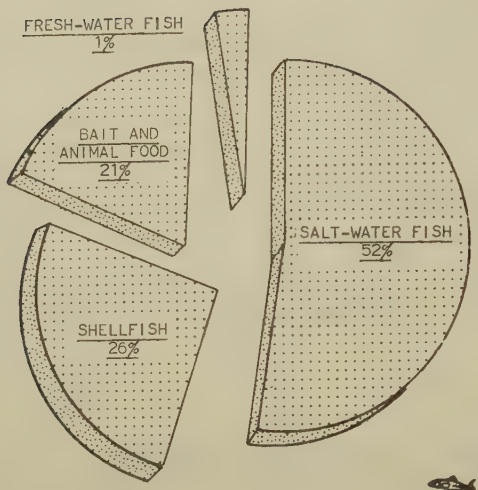
PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1960-61

Product	1960	1961 1/	Record	
			Year	Quantity
	Thousand tons	Thousand tons		Thousand tons
Meal:				
Menhaden	218	248	1961	248
Sardine, Pacific	4	3	1936	122
Herring:				
Alaska	6	4	1937	19
Maine	3	1	1952	7
Tuna and mackerel	26	21	1960	26
Unclassified	33	34	-	-
Total	290	311	1961	311
	Thousand gallons	Thousand gallons		Thousand gallons
Oil:				
Menhaden	24,454	31,356	1961	31,356
Sardine, Pacific	160	86	1936	26,131
Herring	1,533	818	1937	5,623
Tuna and mackerel	509	763	1950	884
Unclassified	1,230	1,393	-	-
Total	27,886	34,416	1936	39,902
	Tons	Tons		Tons
Homogenized condensed fish	9,552	11,690	1956	29,788
Fish solubles	89,377	99,564	1959	136,662

1/ Preliminary.

FROZEN FISH

PRODUCTION OF FROZEN FISH, 1961



The 1961 production of frozen fish and shellfish in the United States by firms reporting to the Bureau of Commercial Fisheries totaled 319.6 million pounds. Of this amount, salt-water fish comprised 52 percent; shellfish, 26 percent; bait and animal food from both fresh-water and salt-water fish, 21 percent; and fresh-water fish, 1 percent.

Leading products frozen during 1961 were: shrimp, 74 million pounds; bait and animal food, 67.6 million pounds; blocks, fillets, and steaks, 56.3 million pounds; halibut, 32.7 million pounds; and headed and gutted whiting, 29.1 million pounds. An estimated 509 million pounds of fish and shellfish (live weight) were required to produce the 1961 production of frozen fishery items.

FREEZINGS AND HOLDINGS OF FISH AND SHELLFISH, 1960-61

Item	1960	1961	Record production	
	Thousand pounds	Thousand pounds	Year	Thousand pounds
Freezings:				
Leading items:				
Bait and animal food	66,768	67,564	1961	67,564
Blocks, fillets, and steaks:				
Ocean perch	25,729	27,100	1951	71,400
Haddock	8,884	11,333	1950	25,224
Other	16,984	17,867	-	-
Round, dressed, etc.:				
Whiting	34,664	29,054	1951	45,520
Halibut	29,995	32,708	1954	35,241
Salmon	9,896	11,550	1945	30,009
Other	34,764	38,925	-	-
Shellfish:				
Shrimp	91,792	74,021	1959	98,376
Other	9,265	9,463	-	-
Total all fishery products	328,741	319,585	1959	336,602
High month	(July) 45,695	(July) 43,577	-	-
Low month	(Feb.) 11,481	(Apr.) 15,261	-	-
Holdings:				
High month	(Nov.) 237,163	(Nov.) 207,089	-	-
Low month	(Apr.) 133,765	(Apr.) 150,157	-	-

FISH STICKS

The United States 1961 production of fish sticks totaled 69.9 million pounds valued at $29.6 million to the processors. This was 4.8 million pounds more than the 1960 production. Cooked sticks (65.1 million pounds) accounted for 93 percent of the production. The remaining production consisted of raw (uncooked) sticks.

During the year, 23 of the 40 producing firms were located in the Atlantic Coast States and manufactured 57.3 million pounds of fish sticks. Seven plants, located in the interior of the country and in the Gulf States, produced 6.8 million pounds. The remaining production was accounted for by 10 firms situated in the Pacific Coast States.

A fish stick is an elongated piece of boneless fish flesh, generally cut from a block of fillets, weighing not less than 3/4 of an ounce and not more than 1-1/4 ounces with the largest dimension at least three times that of the next largest dimension.

PRODUCTION OF FISH STICKS, BY MONTHS, 1961 1/

Month	Cooked	Raw	Total	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand dollars
January	5,734	357	6,091	(2)
February	6,721	371	7,092	(2)
March	6,678	555	7,233	(2)
April	5,229	377	5,606	(2)
May	4,771	365	5,136	(2)
June	4,613	325	4,938	(2)
July	3,272	313	3,585	(2)
August	6,344	593	6,937	(2)
September	4,862	354	5,216	(2)
October	5,752	391	6,143	(2)
November	5,848	450	6,298	(2)
December	5,261	367	5,628	(2)
Total	65,085	4,818	69,903	29,577

1/ Preliminary. 2/ Not available.
Note:--Cooked fish sticks were valued at $27.9 million; raw at $1.7 million.

PRODUCTION OF FISH STICKS, BY AREAS, 1960-61

Area	1960		1961 1/	
	Number of firms	Thousand pounds	Number of firms	Thousand pounds
Atlantic Coast States	23	53,259	23	57,269
Interior and Gulf States	8	6,161	7	6,772
Pacific Coast States	8	5,722	10	5,862
Total	39	65,142	40	69,903

1/ Preliminary.

FISH PORTIONS

The United States 1961 production of fish portions totaled 60.1 million pounds valued at $21.1 million to the processors. This was 10.7 million pounds more than the 1960 production. Breaded portions (58.1 million pounds) accounted for 97 percent of the production. Unbreaded portions accounted for the remaining 3 percent.

During the year, 26 of the 44 producing firms located in the Atlantic Coast States manufactured 34.6 million pounds of fish portions. Twelve plants located in the interior of the country in the Gulf States produced 24 million pounds. The remaining production was accounted for by 6 firms situated in the Pacific Coast States.

A fish portion is a uniformly shaped piece of boneless fish flesh, generally cut from a block of fillets, with a thickness of 3/8 of an inch or more, and which does not conform to the definition of a fish stick.

PRODUCTION OF FISH PORTIONS, BY MONTHS, 1961 1/

Month	Breaded			Unbreaded	Total	
	Cooked	Raw	Total			
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand dollars
January	694	3,472	4,166	137	4,303	(2)
February	756	3,940	4,696	206	4,902	(2)
March	1,322	4,339	5,661	170	5,831	(2)
April	798	3,565	4,363	144	4,507	(2)
May	848	2,944	3,792	110	3,902	(2)
June	552	3,352	3,904	159	4,063	(2)
July	730	3,146	3,876	110	3,986	(2)
August	609	4,252	4,861	126	4,987	(2)
September	1,342	4,262	5,604	165	5,769	(2)
October	1,591	4,959	6,550	233	6,783	(2)
November	1,000	4,580	5,580	233	5,813	(2)
December	1,011	4,052	5,063	152	5,215	(2)
Total	11,253	46,863	58,116	1,945	60,061	21,052

1/ Preliminary. 2/ Not available.
Note:--Breaded cooked fish portions were valued at $4.6 million, raw at $15.8 million. Unbreaded fish portions were valued at $718,000.

PRODUCTION OF FISH PORTIONS, BY AREAS, 1960-61

Area	1960		1961 1/	
	Number of firms	Thousand pounds	Number of firms	Thousand pounds
Atlantic Coast States	24	29,028	26	34,567
Interior and Gulf States	11	19,184	12	24,016
Pacific Coast States	5	1,169	6	1,478
Total	40	49,381	44	60,061

1/ Preliminary.

FISH STICKS AND PORTIONS

The growth of the fish stick and portion industry is an outstanding example of how markets for fish have been expanded through development of new products. Fish sticks reached volume production in 1953, and by 1954 had developed into a major industry. Since that year, the annual production has averaged nearly 61 million pounds. The fish portion industry developed later. In 1958--the first year for which data were collected--21.8 million pounds of fish portions were manufactured.

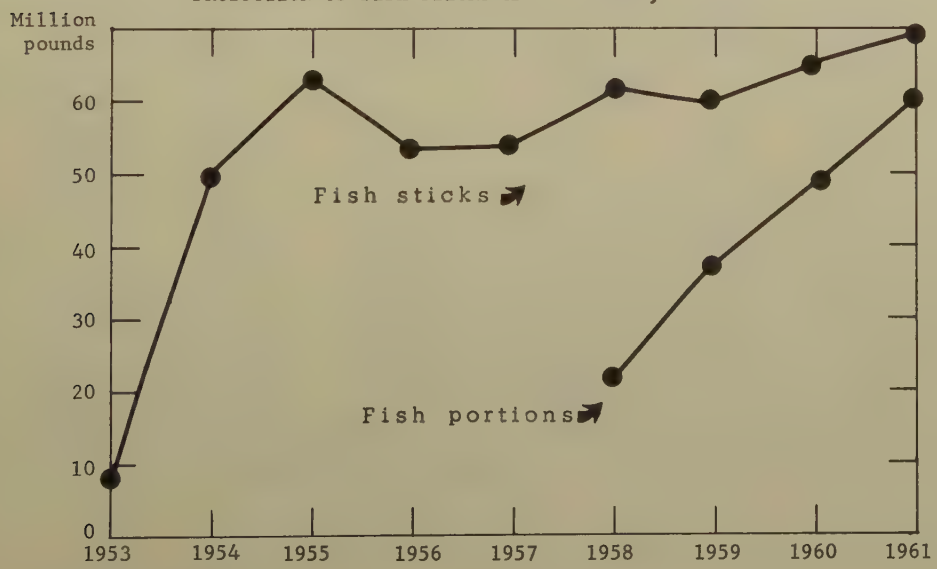
Fish stick production remained relatively steady after 1955, while fish portions rose sharply. Good markets for these products have kept many shore workers employed; however, development of the fish stick and portion industry has not greatly affected the domestic catch of groundfish since imported blocks of groundfish fillets are used almost entirely in the manufacture of both fish sticks and portions.

PRODUCTION OF FISH STICKS AND PORTIONS, 1953-61

Year	Fish sticks		Fish portions	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1953	7,502	4,176	(1)	(1)
1954	49,962	26,506	(1)	(1)
1955	63,046	28,886	(1)	(1)
1956	52,818	23,193	(1)	(1)
1957	53,128	23,544	(1)	(1)
1958	61,011	27,000	21,790	7,972
1959	60,378	28,611	37,147	13,138
1960	65,142	28,671	49,381	17,517
1961 2/	*69,903	*29,577	*60,061	*21,052

1/ Not available. 2/ Preliminary. * Record.

PRODUCTION OF FISH STICKS AND PORTIONS, 1953-61



(Revised - November 1962)

PACKAGED FISH

PRODUCTION OF PACKAGED FISH, 1961 1/

Item	Fresh		Frozen		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets	62,450	22,847	83,842	22,948	146,292	45,795
Steaks	456	120	11,364	5,849	11,820	5,969
Total	62,905	22,967	95,206	28,797	158,112	51,764

1/ Preliminary.

VALUE

VALUE OF MANUFACTURED FISHERY PRODUCTS AT PROCESSORS' LEVEL, 1960 AND 1961

(Produced from domestic catch and imported products)

Item	1960		1961	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Canned	387,595	47.7	424,224	49.6
Packaged:				
Fillets and steaks	48,437	6.0	51,764	6.1
Fish sticks	28,671	3.5	29,577	3.5
Fish portions	17,517	2.2	21,052	2.5
Other (fish and shellfish)	221,187	27.2	1/210,000	24.6
Cured	42,845	5.2	1/43,000	5.0
Industrial products	66,595	8.2	74,515	8.7
Total	812,847	100.0	854,132	100.0

1/ Estimated.

INDUSTRIAL PRODUCTS

PRODUCTION OF INDUSTRIAL PRODUCTS, VARIOUS YEARS, 1936-61

Year	Quantity			Value			
	Fish meal	Fish 1/ solubles	Marine animal oil	Fish meal, oil and solubles	Shell products	Other industrial products	Grand total
	Tons	Thousand pounds	Thousand gallons	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars
1936	243,778	-	*39,902	23,025	10,554	1,390	34,969
1940	193,244	-	24,816	19,859	9,369	1,326	30,554
1948	199,544	47,589	17,084	56,393	16,509	6,964	79,866
1949	237,180	103,343	17,696	58,161	13,212	7,099	78,472
1950	239,954	103,726	21,764	51,188	*17,253	8,747	77,188
1951	209,756	100,728	18,172	46,126	15,129	8,058	69,313
1952	221,403	140,964	16,094	42,533	14,703	10,756	67,992
1953	238,851	162,988	20,294	48,387	16,592	9,393	74,372
1954	256,967	230,059	21,865	56,151	17,024	9,252	82,427
1955	264,502	221,839	24,898	57,972	14,542	10,821	83,335
1956	295,793	257,657	26,867	*65,128	14,513	12,096	*91,737
1957	264,085	244,546	20,349	55,429	14,289	11,663	81,381
1958	248,140	260,354	33,028	55,610	11,361	12,912	79,883
1959	306,551	*330,717	24,798	59,061	9,325	13,830	82,216
1960	290,137	197,858	27,886	42,689	10,074	*13,832	66,595
1961 2/	*311,265	222,508	34,416	51,728	9,361	13,426	74,515

1/ Includes homogenized condensed fish. 2/ Preliminary. * Record.

MANUFACTURING PLANTS

PLANTS PRODUCING CANNED AND INDUSTRIAL FISHERY PRODUCTS, 1961

Area and state	Canned fishery products	Industrial fishery products	Total plants, exclusive of duplication
	Number	Number	Number
New England:			
Maine	41	12	52
Massachusetts	7	5	10
Rhode Island	1	1	2
Connecticut	1	1	2
Total	50	19	66
Middle Atlantic:			
New York	9	4	13
New Jersey	14	13	27
Pennsylvania	7	2	9
Delaware	1	3	4
Total	31	22	53
Chesapeake:			
Maryland	4	9	12
Virginia	9	16	25
Total	13	25	37
South Atlantic and Gulf:			
North Carolina	5	17	18
South Carolina	3	-	3
Georgia	-	1	1
Florida	2	6	8
Alabama	1	1	2
Mississippi	15	5	19
Louisiana	28	8	34
Texas	4	6	10
Total	58	44	95
Great Lakes and Mississippi River:			
Illinois	-	1	1
Iowa	-	7	7
Michigan	2	-	2
Ohio	1	-	1
Wisconsin	1	-	1
Total	4	8	12
Pacific Coast:			
Alaska	91	4	95
Washington	68	11	79
Oregon	17	3	19
California	29	31	42
Total	205	49	235
Hawaii	1	-	1
American Samoa	1	1	1
Puerto Rico	2	2	2
Grand total	365	170	502

ESTIMATED VALUE OF THE FISHING INDUSTRY AT VARIOUS LEVELS, 1960-61

Level	1960 1/			1961 2/		
	Domestic fisheries	Imports	Total	Domestic fisheries	Imports	Total
	Million dollars	Million dollars	Million dollars	Million dollars	Million dollars	Million dollars
Producer (fishermen).	354	-	354	357	-	357
Imports (declared value)	-	360	360	-	398	398
Processor	625	188	813	655	199	854
Wholesaler	845	554	1,399	851	612	1,463
Retailer	1,100	609	1,709	1,109	673	1,782

1/ Revised.
2/ Preliminary.

ESTIMATE OF CAPITAL INVESTMENT, 1961

Item	Accrued value
	Thousand dollars
Producers:	
Fishing craft	541,145
Nets and other gear	
Freezing and processing plants	272,400
Wholesale fish houses 1/	245,000
Retail fish dealers, chain stores, etc. 1/	132,100

1/ Capital investment devoted to fish trade.

PURCHASES OF FRESH, FROZEN, AND CANNED FISHERY PRODUCTS BY DEPARTMENT OF THE ARMY, 1950-61

Year	Fresh and frozen		Canned
	Thousand pounds	Thousand dollars	Thousand pounds
1950	17,884	7,399	(1)
1951	31,884	13,771	(1)
1952	32,276	15,050	(1)
1953	26,769	11,857	(1)
1954	25,290	10,395	(1)
1955	24,989	10,929	(1)
1956	26,610	13,413	(1)
1957	23,452	12,080	6,037
1958	22,511	12,850	9,473
1959	22,651	11,624	5,834
1960	22,917	11,839	7,350
1961	23,450	12,470	8,615

1/ Data not available.

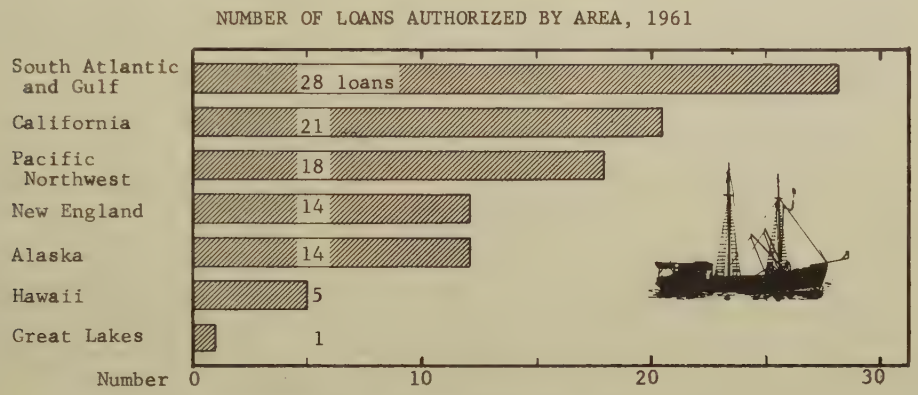
Note:-- Purchases by the Department of the Army were for the United States Armed Forces. Data on local purchases made throughout the year are not available.

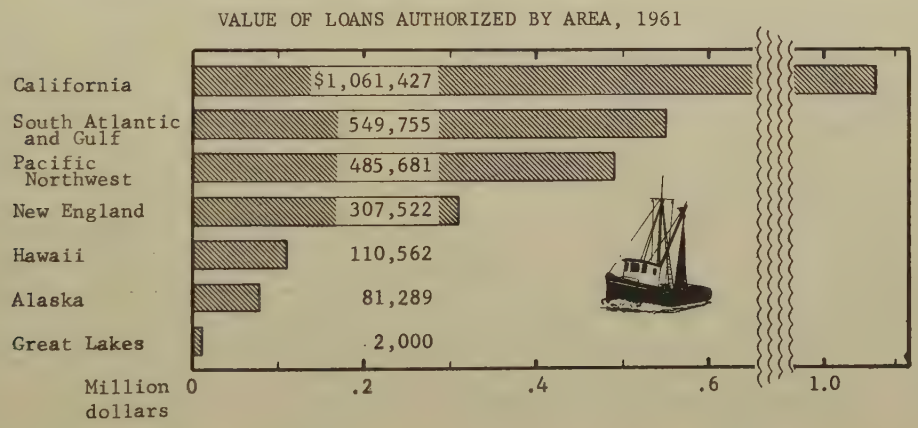
FISHERY LOAN PROGRAM

The Fish and Wildlife Act of 1956 authorized a fishery loan fund program which was started in October 1956. The first loans were approved in late December of that year. Since that time, through December 31,1961, 1,066 applications for $30.8 million have been received. Of these, 560 ($13.7 million) have been approved.

These loans can be made only for the financing and refinancing of operations, maintenance, repairs, replacement, and equipment of fishing vessels and fishing gear, and for research into the basic problems of the fisheries in cases where the credit applied for is not available elsewhere on reasonable terms.

The charts appearing below show the number and value of loans which were authorized during the calendar year 1961 by areas. A total of 101 applications for $2.6 million were approved.





OTHER FINANCIAL ASSISTANCE PROGRAMS

The Department operates two other programs of financial assistance. The Fishing Vessel Mortgage Insurance Program provides for insurance by the Department of the Interior of mortgages given to finance the construction, reconstruction, or reconditioning of fishing vessels. Six applications for mortgage insurance were approved during the year. The Fishing Vessel Construction Differential Subsidy Program was set up to pay a part of the difference in the cost of construction between domestic and foreign shipyards for vessels to be operated in a fishery which has been found to be suffering injury or threat of injury by reason of increased imports. No subsidies were approved during the year, although several applications were being processed.

UNITED STATES IMPORTS

IMPORTANT FISHERY IMPORTS, 1960-61

Item	Unit	1960	1961 1/	Record Imports	
		Quantity	Quantity	Year	Quantity
Edible fishery products:					
Fresh and frozen:					
Fillets:					
Groundfish and ocean perch.	1,000 pounds	65,878	76,491	1961	195,100
Blocks or slabs.	do	89,672	118,609		
Total.	do	155,550	195,100	1961	195,100
Other	do	61,713	45,353	1959	67,881
Salmon.	do	13,472	12,309	1950	44,975
Tuna:					
Albacore.	do	69,801	71,945	1961	71,945
Other	do	164,847	114,043	1959	183,955
Loins and discs	do	6,711	8,348	1957	12,434
Sea scallops.	do	6,873	8,652	1961	8,652
Lobsters:					
Common (includes fresh-cooked meat)	do	21,403	21,298	1951	23,558
Spiny	do	32,346	32,611	1961	32,611
Shrimp (mostly frozen, some canned and dried).	do	113,418	126,268	1961	126,268
Canned:					
Salmon.	do	19,113	7,167	1959	31,154
Sardines:					
In oil.	do	21,236	27,877	1932	42,336
Not in oil.	do	6,141	14,611	1953	34,271
Tuna:					
In oil.	do	596	431	1950	36,410
In brine.	do	51,159	58,232	1961	58,232
Bonito and yellowtail:					
In oil.	do	7,109	6,853	1954	12,996
In brine.	do	2,795	3,503	1957	3,905
Crab meat	do	4,507	4,237	1939	13,507
Lobsters:					
Common.	do	2,406	2,772	1961	2,772
Spiny	do	533	56	1952	2,621
Oysters (mostly canned)	do	7,025	7,701	1961	7,701
Nonedible fishery products:					
Scrap and meal.	tons	131,561	217,845	1961	217,845
Solubles.	do	3,174	6,739	1959	26,630
Whale oil, sperm.	1,000 gallons	4,836	7,808	1958	9,010

1/ Preliminary.

Note:--The data include imports into United States territories and possessions, but do not include landings of tuna by foreign vessels in American Samoa.

Source:--Department of Commerce, Bureau of the Census.

UNITED STATES IMPORTS - Continued

IMPORTS OF SHRIMP, VARIOUS YEARS, 1940-61

Country of origin	1940	1950	1960	1961
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
North America:				
Mexico	4,913	39,653	73,583	79,181
Panama	-	143	8,423	9,892
El Salvador	-	-	6,697	8,093
Costa Rica	-	-	461	1,321
Honduras	-	-	361	227
Canada	22	89	332	249
Nicaragua	-	-	266	803
Guatemala	-	-	257	743
Cuba	-	-	79	-
British Honduras	-	-	1	1
Canal Zone	-	148	-	-
Other	-	25	299	80
Total	4,935	40,058	90,759	100,590
South America:				
Ecuador	-	-	4,192	4,684
British Guiana	-	-	3,568	3,506
Colombia	-	-	2,174	1,873
Chile	-	-	739	537
Surinam	-	-	381	447
Venezuela	-	-	343	2,469
Peru	-	-	256	358
Argentina	-	-	64	20
Brazil	-	-	43	40
Total	-	-	11,760	13,934
Europe:				
Spain	-	-	225	446
Norway	2	69	110	71
Denmark	(1)	-	81	112
Iceland	-	(1)	92	70
Italy	-	3	-	30
United Kingdom	-	(1)	1	59
Other	22	5	8	51
Total	24	77	517	839
Asia:				
Japan	55	58	2,947	1,823
India	-	-	2,892	3,220
Iran	-	-	1,226	1,953
Pakistan	-	-	1,018	1,686
Korea, Republic	-	-	93	171
Thailand	-	-	40	35
Hong Kong	4	-	3	14
Other	6	5	340	317
Total	65	63	8,559	9,219
Australia and Oceania	-	(1)	155	36
Africa, Egypt	-	-	1,668	1,650
Grand total	5,024	40,198	113,418	126,268

1/ Less than 500 pounds.

UNITED STATES IMPORTS - Continued

APPROXIMATE CONDITION OF IMPORTED SHRIMP, 1959-61

Product	1959	1960	1961	Factor used to convert to round weight
	Percent	Percent	Percent	Multiply by
Headless	85.0	82.0	80.17	1.68
Meat:				
Raw	14.1	16.0	16.06	2.04
Cooked			1.59	3.62
Canned	0.6	0.4	1.30	3.70
Breaded	0.2	1.5	0.73	1.20
Dried	0.1	0.1	0.13	7.69
Other	-	-	0.02	1.68
Total	100.0	100.0	100.00	-

IMPORTS OF FISH MEAL AND SCRAP, VARIOUS YEARS, 1950-61

Country of origin	1950	1959	1960	1961
	Tons	Tons	Tons	Tons
Angola	6,503	20,738	888	1,543
Canada	42,499	39,033	30,982	38,218
Chile	377	5,104	21,183	12,074
Peru	3,917	49,923	68,156	151,439
Union of South Africa	825	9,727	7,073	13,026
Other countries	9,734	8,400	3,279	1,545
Total	63,855	132,925	131,561	217,845

Source:--Department of Commerce, Bureau of the Census.

IMPORTS OF FISH SOLUBLES, 1958-61

Country of origin	1958	1959	1960	1961
	Tons	Tons	Tons	Tons
Canada	2,699	1,660	869	1,001
Denmark	9,943	18,723	1,858	28
Other countries	1,925	6,247	447	5,710
Total	14,567	26,630	3,174	6,739

Source:--Department of Commerce, Bureau of the Census.

UNITED STATES IMPORTS - Continued

IMPORTS OF FISHERY PRODUCTS, 1960

Country of origin	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
Canada	386,643	97,294	5,583	102,877
Japan	247,483	64,704	20,552	85,256
Mexico	93,980	36,390	315	36,705
Peru	52,248	7,382	6,888	14,270
Norway	47,582	11,679	827	12,506
Union of South Africa	15,527	11,030	1,000	12,030
Australia	9,997	9,468	371	9,839
Iceland	35,890	8,842	464	9,306
Panama	8,887	5,761	6	5,767
Portugal	13,733	4,973	316	5,289
Ecuador	16,593	4,467	-	4,467
Denmark	13,465	4,258	84	4,342
El Salvador	6,697	4,215	(1)	4,215
West Germany	5,781	1,292	2,808	4,100
Brazil	2,426	1,786	2,130	3,916
Cuba	3,753	3,266	635	3,901
Chile	1,777	1,070	1,560	2,630
New Zealand	3,175	2,591	19	2,610
Netherlands	5,902	1,660	902	2,562
British Guiana	3,568	2,328	47	2,375
India	3,833	1,740	623	2,363
France	5,968	1,551	766	2,317
Colombia	2,175	1,573	319	1,892
United Kingdom	4,203	604	1,155	1,759
Spain	4,166	1,613	182	1,795
British Western Pacific Islands	10,430	1,628	6	1,634
Western Portuguese Africa	12,487	1,397	10	1,407
Iran	1,727	1,304	(1)	1,304
Hong Kong	1,023	920	205	1,125
Argentina	177	69	948	1,017
Egypt	1,667	1,003	(1)	1,003
Western Africa, N.E.C.	9,418	991	6	997
Greenland	7,662	992	(1)	992
Trinidad and Tobago	7,365	839	24	863
Other	20,052	6,700	3,934	10,634
Total	1,067,460	307,380	52,685	360,065

1/ Less than $500.

IMPORTS OF FISHERY PRODUCTS, VARIOUS YEARS, 1935-60

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1935	324,732	27,535	8,697	36,232
1940	302,518	29,073	12,757	41,830
1945	404,768	76,434	24,820	101,254
1950	639,725	158,414	39,882	198,296
1951	646,668	158,363	54,094	212,457
1952	705,118	183,121	* 57,308	240,429
1953	726,194	195,869	49,611	245,480
1954	803,389	203,645	48,687	252,332
1955	771,012	208,051	49,896	257,947
1956	787,866	233,166	48,031	281,197
1957	884,024	250,956	46,487	297,443
1958	991,479	280,212	46,959	327,171
1959	*1,113,624	* 311,033	55,467	* 366,500
1960	1,067,460	307,380	52,685	360,065

* Record

UNITED STATES EXPORTS

EXPORTS OF FISH AND FISH LIVER OILS, 1957-61

Country of destination	1957	1958	1959	1960	1961
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Belgium	1,323	4,688	4,333	685	1,354
Canada	2,456	12,971	3,840	9,846	16,935
Denmark	-	-	1,153	20	-
Netherlands	27,815	21,841	44,116	53,133	25,587
Norway	10,544	11,589	16,109	15,914	31,277
Sweden	15,432	6,740	40,711	36,026	20,641
Switzerland	1,587	1,115	-	-	-
West Germany	52,593	34,236	33,177	26,083	15,591
Other countries	3,190	863	1,042	1,952	11,101
Total	114,940	94,043	144,481	143,659	122,486

Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF SARDINES, VARIOUS YEARS, 1939-61

Country of destination	1939	1949	1959	1960	1961
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Belgium	1,754	3,268	721	316	142
Canada	5,328	142	542	-	131
Cuba	2,552	5,002	3,046	704	-
Ecuador	958	1,493	1,118	1,623	436
Greece	14	2,881	-	3	-
Hong Kong	339	1,388	307	387	190
Malaya, Federation of	4,914	1,208	22	95	370
New Zealand	127	24	2,424	1,420	188
Philippines	14,747	71,127	25,724	12,446	1,974
United Kingdom	11,199	9,744	20	31	-
Other countries	14,881	10,564	4,800	4,194	4,229
Total	56,813	106,841	38,724	21,219	7,660

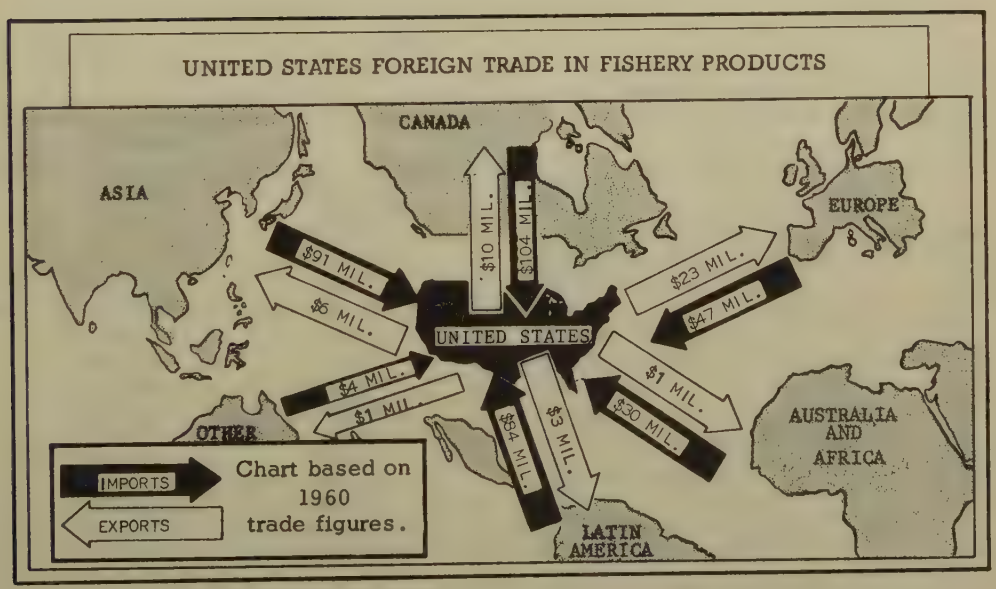
Source:--Department of Commerce, Bureau of the Census.

UNITED STATES EXPORTS - Continued

IMPORTANT FISHERY EXPORTS, 1960-61

Item	Unit	1960 Quantity	1961 Quantity	Record exports Year	Record exports Quantity
Canned:					
Mackerel	1,000 pounds	1,305	3,908	1957	17,044
Salmon	do	11,924	7,186	1943	69,486
Sardines:					
In oil	do	264	185	1943	137,203
Not in oil	do	20,955	7,475		
Shrimp	do	3,482	2,503	1960	3,482
Squid	do	7,530	3,432	1959	9,156
Fish oils, unclassified	do	143,659	122,486	1959	144,481

Source:--Department of Commerce - Bureau of the Census.



UNITED STATES EXPORTS - Continued

EXPORTS OF FISHERY PRODUCTS, 1960

Country of destination	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
Canada	13,001	7,191	3,118	10,309
Netherlands	818	554	3,796	4,350
United Kingdom	9,851	8,193	267	8,460
Japan	1,292	777	2,518	3,295
Philippines	16,922	2,464	30	2,494
Sweden	256	194	2,419	2,613
West Germany	149	128	2,073	2,201
Norway	7	4	1,386	1,390
Switzerland	135	35	1,047	1,082
France	1,131	807	241	1,048
Italy	213	58	585	643
Mexico	603	245	371	616
Belgium	783	416	121	537
Venezuela	619	439	22	461
Australia	594	420	24	444
New Zealand	1,940	316	1	317
Greece	2,993	312	1	313
Ecuador	1,634	292	1	293
Hong Kong	617	235	34	269
Netherlands Antilles	286	225	1	226
El Salvador	785	165	36	201
Costa Rica	975	200	1	201
Cuba	723	136	39	175
Bahamas	173	125	18	143
Panama	543	133	-	133
Jamaica	403	126	7	133
Bermuda	111	95	10	105
Denmark	23	15	90	105
Singapore	196	102	-	102
Other	3,678	1,220	286	1,506
Total	61,454	25,622	18,543	44,165

EXPORTS OF FISHERY PRODUCTS, VARIOUS YEARS, 1935-60

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1935	119,687	12,875	1,499	14,374
1940	144,804	17,115	670	17,785
1945	135,979	30,855	7,655	38,510
1950	121,623	18,856	8,618	27,474
1951	165,624	27,072	8,659	35,731
1952	62,056	15,511	6,436	21,947
1953	69,308	17,084	10,794	27,878
1954	62,724	16,238	15,289	31,527
1955	109,750	24,923	15,054	39,977
1956	101,918	22,939	16,564	39,503
1957	85,221	20,549	15,403	35,952
1958	65,468	19,440	11,564	31,004
1959	80,688	26,747	17,495	44,242
1960	61,454	25,622	18,543	44,165

UNITED STATES CUSTOMS DUTIES

IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1936-60

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars	Percent	Percent
1936	41,873	2,423,977	6,545	400,558	15.6	16.5
1937	50,636	3,009,852	8,254	465,253	16.3	15.5
1938	39,307	1,949,624	5,701	293,070	14.5	15.0
1939	45,999	2,276,099	6,015	316,372	13.1	13.9
1940	41,830	2,540,656	4,772	305,609	11.4	12.0
1941	40,981	3,221,954	3,888	413,846	9.5	12.8
1942	39,568	2,780,317	2,714	323,409	6.9	11.6
1943	67,183	3,390,101	3,523	395,030	5.2	11.7
1944	78,418	3,887,490	4,386	382,109	5.6	9.8
1945	101,254	4,098,101	6,979	391,476	6.9	9.6
1946	129,713	4,824,902	8,047	498,001	6.2	10.3
1947	109,975	5,666,321	6,895	445,355	6.3	7.9
1948	156,648	7,092,032	8,694	417,401	5.6	5.9
1949	151,614	6,591,640	7,560	374,291	5.0	5.7
1950	198,296	8,743,082	12,484	529,621	6.3	6.1
1951	212,457	10,817,341	10,346	603,468	4.9	5.6
1952	240,429	10,747,497	11,982	574,733	5.0	5.3
1953	245,480	10,778,905	14,026	597,760	5.7	5.5
1954	252,322	10,239,517	14,405	556,936	5.7	5.4
1955	257,947	11,336,787	14,530	669,579	5.6	5.9
1956	281,197	12,515,747	15,504	739,228	5.5	5.9
1957	297,443	12,950,606	15,955	776,884	5.4	6.0
1958	327,171	12,734,477	16,645	832,155	5.1	6.5
1959	366,500	14,987,075	17,737	1,066,536	4.8	7.1
1960	360,065	14,650,335	15,857	1,086,089	4.4	7.4

CUSTOMS RECEIPTS FROM IMPORTS OF AQUATIC PRODUCTS
BY COMMODITY DESCRIPTIONS FOR YEAR 1960

	Value
Canned products:	
Anchovies, in oil	$326,019
Bonito and yellowtail, in oil	254,852
Crab meat	1,240,570
Salmon	1,131,276
Sardines:	
In oil	1,409,101
Not in oil 1/	172,732
Total	1,581,833
Tuna:	
In oil	77,034
Not in oil	2,374,927
Total	2,451,961
Groundfish fillets	1,643,353
Fresh-water fish, fresh or frozen, whole, dressed or fillets	230,824
Pickled or salted	380,742
Marine animal and liver oils	151,850
Sponges	105,801
Buttons - pearl or shell	186,291
Pearls	728,095
Agar-agar	141,610
Other	5,302,067
Total	15,857,144

1/ Includes herring.
Note:--Important free items: frozen tuna, shrimp, fish meal, and lobsters.

UNITED STATES CUSTOMS DUTIES - Continued

CUSTOMS RECEIPTS FROM AQUATIC PRODUCTS FOR CALENDAR YEAR 1960

Tariff paragraph	Item	Value
5	Alginate	$279,996
23	Medicinal preparations	74,233
34	Fish liver oils	76,836
41	Glue, isinglass, and agar-agar	155,368
52	Fish oils, not containing alcohol	75,014
60	Ambergris	1,848
66	Pearl essence	41,889
717	Fish, fresh or frozen, dried and unsalted	3,179,192
718	Fish and fish products in oil or not in oil and other substances (canned)	6,071,002
719	Pickled or salted fish	380,742
720	Smoked or kippered fish, prepared or preserved	1,061,285
721	Fish paste, fish sauce, caviar and miscellaneous shellfish items	1,991,807
730	Dog and cat food	4,545
1509	Pearl shell buttons	186,291
1519	Sealskins	58,056
1528	Pearls and parts	728,095
1530	Reptilian, shark skin and walrus leather (raw)	185,109
1531	Reptile leather products (manufactured)	1,033,623
1537	Whalebone	-
1538	Shells	44,628
1540	Seaweed	22,119
1545	Sponges, n. e. s.	105,801
1558	Frog legs	99,665
	Total	15,857,144

FREE AND DUTIABLE IMPORTS OF FISHERY PRODUCTS, 1960, TARIFF STATUS

Item	Quantity	Percent of total	Foreign value	Percent of total
	Thousand pounds	Percent	Thousand dollars	Percent
Edible products:				
Dutiable at rates reduced by trade agreement	459,165	43	134,365	44
Dutiable bound at full rate	123,816	11	24,351	8
Dutiable but not subject to trade agreement concession	5,958	1	2,355	1
Free of duty, not bound against increase	288,958	27	79,395	26
Free of duty, bound against increase	189,563	18	66,914	21
Total edible fishery products	1,067,460	100	307,380	100
Inedible products:				
Dutiable at rates reduced by trade agreement	(1)	(1)	28,406	54
Dutiable bound at full rate	(1)	(1)	1,240	2
Dutiable but not subject to trade agreement concession	(1)	(1)	520	1
Free of duty, not bound against increase	(1)	(1)	406	1
Free of duty, bound against increase	(1)	(1)	22,113	42
Total inedible fishery products	(1)	(1)	52,685	100
Total all products	(1)	-	360,065	-

1/ Not available.

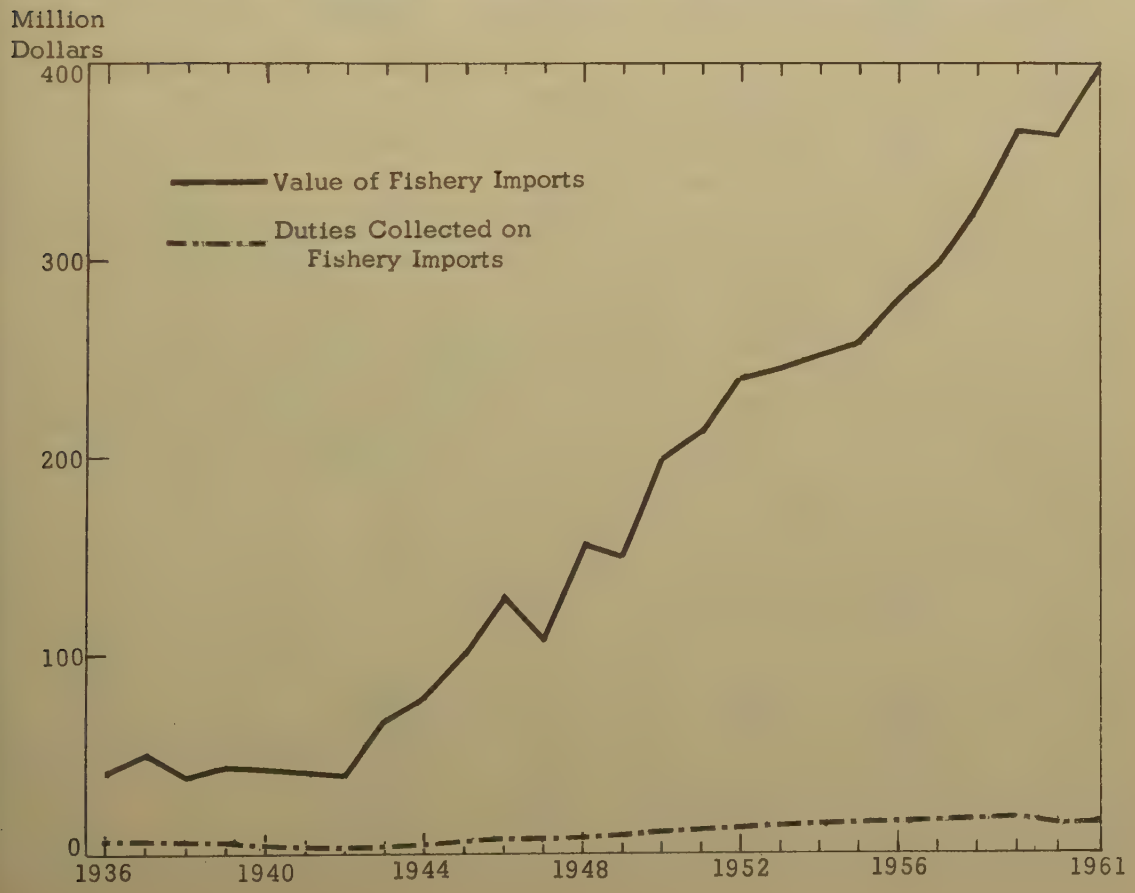
UNITED STATES CUSTOMS DUTIES - Continued

IMPORTS OF FISHERY PRODUCTS ENTERING UNDER SPECIFIC, AD VALOREM, AND FREE OF DUTY TARIFF STATUS, 1960

Item	Quantity	Percent of total	Foreign value	Percent of total
	Thousand pounds	Percent	Thousand dollars	Percent
e products:				
orts at specific rates of duty. . .	417,113	39	109,445	36
orts at ad valorem rates.	135,409	13	51,626	17
orts free of duty	514,938	48	146,309	47
Total edible fishery products . . .	1,067,460	100	307,380	100
ble products:				
orts at specific rates of duty. . .	(1)	(1)	11,801	22
orts at ad valorem rates.	(1)	(1)	18,365	35
orts free of duty	(1)	(1)	22,519	43
Total inedible fishery products . .	(1)	(1)	52,685	100
Total all products.	(1)	-	360,065	-

ot available.

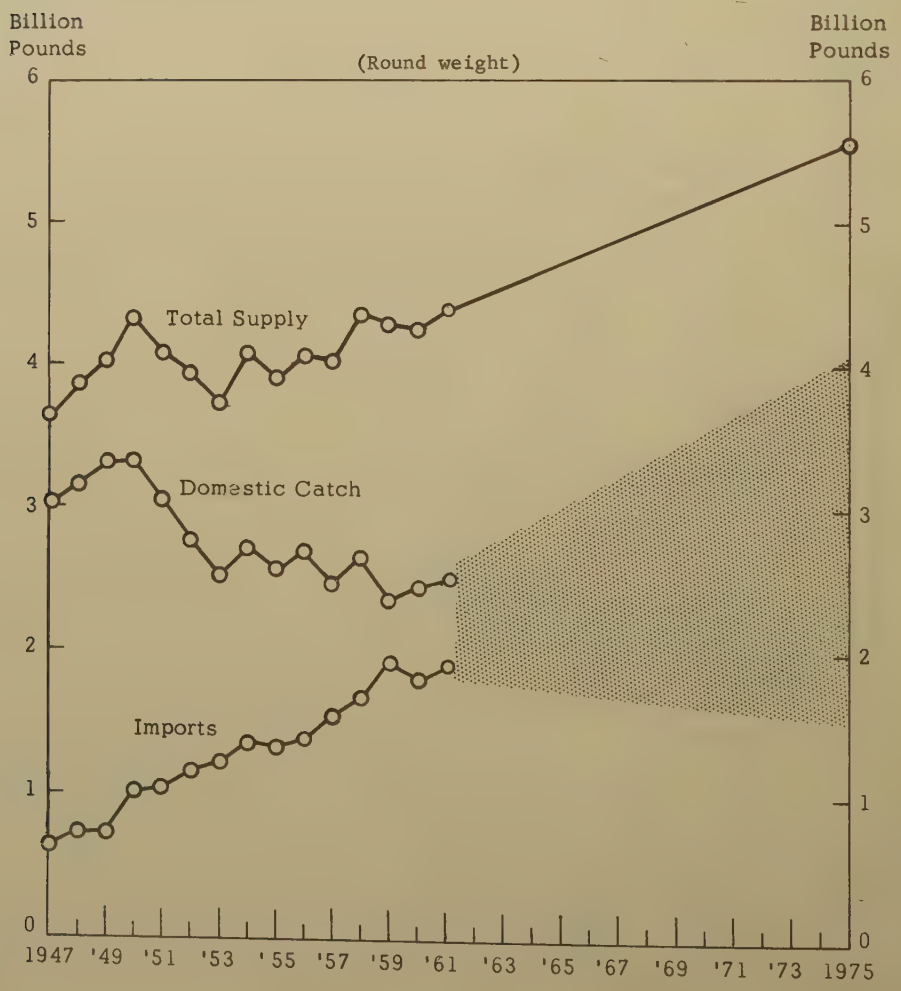
VALUE OF FISHERY IMPORTS AND DUTIES COLLECTED, 1936-61



The tables in this section contain information on the domestic catch and imports and, in cases where they are significant, exports of the more important fishery products. Stocks have not been considered in determining the total supply, so supply cannot be considered synonymous with consumption.

The graph, entitled "United States Supply of Edible Fishery Products, 1947-61, and Estimated Requirements, 1962-75" was prepared by assuming that the average total supply for the period 1957-61 could be projected through 1975, allowing for population increases. The population in 1961 was estimated to be 183,000,000 and 230,000,000 in 1975. The 1975 population estimate of 230,000,000 is an average of several estimates made by the Bureau of the Census in "Population Estimates," Series P-25, No. 187.

United States Supply of Edible Fishery Products, 1947-61, and Estimated Requirements, 1962-75



UNITED STATES SUPPLY OF FISHERY PRODUCTS, 1948-61

(Round weight basis)

Year	Domestic catch		Imports 1/		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1948	4,513	80.0	1,128	20.0	5,641
1949	4,804	79.5	1,237	20.5	6,041
1950	4,901	74.9	1,646	25.1	6,547
1951	4,433	65.6	2,324	34.4	6,757
1952	4,432	58.0	3,204	42.0	7,636
1953	4,487	64.0	2,528	36.0	7,015
1954	4,762	62.7	2,829	37.3	7,591
1955	4,809	67.6	2,303	32.4	7,112
1956	*5,268	69.7	2,285	30.3	7,553
1957	4,789	67.1	2,353	32.9	7,142
1958	4,747	63.6	2,720	36.4	7,467
1959	5,122	61.2	3,251	38.8	8,373
1960	4,942	61.3	3,114	38.7	8,056
1961 2/	5,155	55.7	*4,103	44.3	*9,258

1/ Excludes imports of cured cod into Puerto Rico. 2/ Preliminary. * Record.

UNITED STATES SUPPLY OF EDIBLE FISHERY PRODUCTS, 1948-61

(Round weight basis)

Year	Domestic catch		Imports 1/		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1948	3,146	81.4	717	18.6	3,863
1949	3,305	82.2	715	17.8	4,020
1950	*3,307	76.6	1,008	23.4	4,315
1951	3,048	74.6	1,039	25.4	4,087
1952	2,778	70.4	1,169	29.6	3,947
1953	2,519	67.5	1,213	32.5	3,732
1954	2,705	66.4	1,369	33.6	4,074
1955	2,759	66.1	1,323	33.9	3,902
1956	2,690	66.0	1,385	34.0	4,075
1957	2,475	61.6	1,543	38.4	4,018
1958	2,651	60.7	1,717	39.3	4,368
1959	2,369	55.2	1,921	44.8	4,290
1960	2,498	58.1	1,798	41.9	4,296
1961 2/	2,479	56.3	*1,925	43.7	*4,404

1/ Excludes imports of cured cod into Puerto Rico. 2/ Preliminary. * Record.

UNITED STATES SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1948-61

(Round weight basis)

Year	Domestic catch		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1948	1,367	76.9	411	23.1	1,778
1949	1,499	74.2	522	25.8	2,021
1950	1,594	71.4	638	28.6	2,232
1951	1,385	51.9	1,285	48.1	2,670
1952	1,654	44.8	2,035	55.2	3,689
1953	1,968	60.0	1,315	40.0	3,283
1954	2,057	58.5	1,460	41.5	3,517
1955	2,230	69.5	980	30.5	3,210
1956	2,578	74.1	900	25.9	3,478
1957	2,314	74.1	810	25.9	3,124
1958	2,096	67.6	1,000	32.4	3,096
1959	*2,753	67.4	1,330	32.6	4,083
1960	2,444	65.0	1,316	35.0	3,760
1961 1/	2,676	55.1	*2,178	44.9	*4,854

1/ Preliminary. *Record.

SUPPLY OF GROUNDFISH AND ATLANTIC OCEAN PERCH FILLETS, 1951-61

Year	U. S. production		Imports 1/		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1951	*148,786	62.9	87,639	37.1	236,425
1952	132,662	55.3	107,401	44.7	240,063
1953	112,280	55.6	89,706	44.4	201,986
1954	122,391	47.1	137,548	52.9	259,939
1955	105,157	44.0	128,312	55.0	233,469
1956	107,138	44.2	135,295	55.8	242,433
1957	96,650	40.7	140,678	59.3	237,328
1958	99,074	40.3	146,589	59.7	245,663
1959	91,133	33.0	184,837	67.0	275,970
1960	93,818	37.6	155,550	62.4	249,368
1961 2/	93,039	32.3	*195,100	67.7	*288,139

1/ Includes imports of frozen blocks of groundfish. 2/ Preliminary. * Record.

SUPPLY OF FILLETS, STEAKS, ETC., OTHER THAN GROUNDFISH AND ATLANTIC OCEAN PERCH, 1951-61

Year	U. S. production		Imports		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1951	56,709	55.5	45,528	44.5	102,237
1952	58,535	52.5	52,873	47.5	111,408
1953	48,132	48.4	51,344	51.6	99,476
1954	51,251	51.6	47,911	48.4	99,162
1955	51,922	48.4	55,223	51.6	107,145
1956	55,661	48.0	60,274	52.0	115,935
1957	57,815	47.7	63,300	52.3	121,115
1958	56,801	47.5	62,688	52.5	119,489
1959	56,104	46.4	64,802	53.6	120,906
1960	59,348	49.0	61,713	51.0	121,061
1961 1/	*65,073	48.6	*68,742	51.4	*133,815

1/ Preliminary. * Record.

SUPPLY OF CANNED SALMON, 1951-61

Year	United States pack	Percent of total supply	Imports	Percent of total supply	Total supply	Exports	Total available for U.S. consumption
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds
1951	222,987	99.7	568	.3	223,555	2,060	221,495
1952	214,289	95.7	9,544	4.3	223,833	1,427	222,406
1953	187,769	93.9	12,165	6.1	199,934	2,277	197,657
1954	199,810	94.6	11,371	5.4	211,181	7,227	203,954
1955	157,855	91.4	14,644	8.6	172,499	10,429	162,070
1956	168,250	85.4	28,802	14.6	197,052	5,213	191,839
1957	153,917	86.3	24,401	13.7	178,318	6,688	171,630
1958	179,134	86.0	29,226	14.0	208,360	9,227	199,133
1959	118,330	79.2	31,154	20.8	149,484	13,826	135,658
1960	136,049	87.7	19,113	12.3	155,162	11,924	143,238
1961 1/	177,443	96.1	7,167	3.9	184,610	7,186	177,424

1/ Preliminary.

SUPPLY OF CANNED TUNA, VARIOUS YEARS, 1939-61

(Canned weight)

Year	U.S. pack from domestic catch		U.S. pack from imported fish 1/		Total	Imported canned		Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1939. . . .	66,685	83.0	3,559	4.4	70,244	2/10,126	12.6	80,370
1940. . . .	80,389	89.8	1,455	1.6	81,844	2/ 7,678	8.6	89,522
1947. . . .	107,446	93.7	1,060	.9	108,506	2/ 6,148	5.4	114,654
1948. . . .	129,554	92.2	2,603	1.9	132,157	2/ 8,302	5.9	140,459
1949. . . .	134,032	93.6	4,613	3.2	138,645	4,584	3.2	143,229
1950. . . .	152,693	72.6	20,769	9.9	173,462	36,791	17.5	210,253
1951. . . .	125,816	74.7	29,549	17.6	155,365	12,971	7.7	168,336
1952. . . .	140,200	70.6	34,951	17.6	175,151	23,321	11.8	198,472
1953. . . .	135,908	61.8	49,570	22.5	185,478	34,592	15.7	220,070
1954. . . .	148,861	60.9	64,147	26.2	213,008	31,589	12.9	244,597
1955. . . .	113,647	49.0	82,765	35.7	196,412	35,563	15.3	231,975
1956. . . .	152,701	57.0	76,744	28.7	229,445	38,215	14.3	267,660
1957. . . .	140,196	50.6	92,260	33.3	232,456	44,386	16.1	276,842
1958. . . .	149,810	46.3	127,321	39.4	277,131	46,204	14.3	323,335
1959. . . .	132,159	39.1	*150,033	44.3	282,192	56,134	16.6	338,326
1960. . . .	152,995	43.3	148,393	42.0	301,388	51,755	14.7	353,143
1961 3/ . .	*174,144	47.2	136,468	36.9	*310,612	*58,663	15.9	*369,275

1/ Includes pack canned in American Samoa.

2/ Includes bonito and yellowtail.

3/ Preliminary. * Record.

SUPPLY OF CANNED BONITO AND YELLOWTAIL, VARIOUS YEARS, 1939-61

Year	United States pack		Imports				Total supply
			In oil	In brine	Total		
	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1939. . .	4,744	(1)	(2)	(2)	(2)	(1)	(1)
1940. . .	4,049	(1)	(2)	(2)	(2)	(1)	(1)
1949. . .	3,056	27.5	3/ 8,054	(3)	8,054	72.5	11,110
1950. . .	1,332	14.1	3/ 8,135	(3)	8,135	85.9	9,467
1951. . .	1,961	15.8	3/10,437	(3)	10,437	84.2	12,398
1952. . .	4,266	23.6	3/13,812	(3)	13,812	76.4	18,078
1953. . .	3,226	24.0	3/10,242	(3)	10,242	76.0	13,468
1954. . .	1,446	8.6	12,996	2,375	15,371	91.4	16,817
1955. . .	88	.6	11,725	3,589	15,314	99.4	15,402
1956. . .	125	.9	10,409	3,210	13,619	99.1	13,744
1957. . .	220	1.4	11,608	3,905	15,513	98.6	15,733
1958. . .	2,107	14.4	9,759	2,732	12,491	85.6	14,598
1959. . .	1,071	7.3	9,675	3,848	13,253	92.7	14,594
1960. . .	138	1.4	7,109	2,795	9,904	98.6	10,042
1961 4/ .	159	1.5	6,853	3,503	10,356	98.5	10,515

1/ Data not available. 2/ Prior to 1948 imports of bonito and yellowtail were included with those of tuna. 3/ Data on the pack in brine have been included with the pack in oil.
4/ Preliminary.

CATCH AND IMPORTS OF TUNA, 1951-61

Year	United States catch 1/	Imports		
		Fresh & frozen including cooked loins and discs (round weight) 2/	Canned	
			In oil	In brine
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1951	318,912	59,126	3,619	9,352
1952	322,694	69,511	4,288	19,033
1953	302,804	96,120	4,712	29,880
1954	322,696	125,992	1,111	30,478
1955	270,366	154,668	818	34,745
1956	329,482	138,936	586	37,629
1957	296,735	172,697	1,068	43,318
1958	319,377	233,873	758	45,446
1959	285,909	284,115	830	55,304
1960	298,203	267,139	596	51,159
1961 3/	322,300	242,687	431	58,232

1/ Does not include Hawaii prior to 1959 or Puerto Rico.
2/ Does not include landings of foreign-caught fish in American Samoa. 3/ Preliminary.

SUPPLY OF CANNED SARDINES, 1951-61

Year	U. S. production		Imports 1/		Exports		Total supply available for U. S. consumption
	Maine	Pacific	In oil	Not in oil	In oil	Not in oil	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1951	39,236	128,924	19,324	9,965	(2)	2/126,661	70,788
1952	82,622	4,803	20,887	10,095	3,250	36,620	78,537
1953	65,110	2,862	23,094	34,271	773	9,184	115,380
1954	68,677	60,215	22,294	22,957	816	16,441	156,886
1955	29,691	63,657	20,930	9,886	1,179	45,431	77,554
1956	52,216	33,963	18,581	10,460	229	39,445	75,546
1957	51,894	22,399	20,127	14,396	379	14,922	93,515
1958	49,139	100,016	18,001	21,172	645	17,816	169,867
1959	41,024	33,956	21,153	11,603	1,271	37,453	69,012
1960	46,744	27,714	21,236	16,732	264	20,955	91,207
1961 3/	17,635	18,859	27,877	25,702	185	7,475	82,413

1/ Includes sea herring. 2/ Data on sardines canned in oil have been combined with canned sardines not in oil. 3/ Preliminary.

SUPPLY OF CANNED SARDINES OBTAINED FROM DOMESTIC PACK AND IMPORTS, 1951-61

Year	United States pack 1/	Percent of total supply	Imports 2/	Percent of total supply	Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1951	168,160	85.2	29,289	14.8	197,449
1952	87,425	73.8	30,982	26.2	118,407
1953	67,972	54.2	57,365	45.8	125,337
1954	128,892	74.0	45,251	26.0	174,143
1955	93,348	75.2	30,816	24.8	124,164
1956	86,179	74.8	29,041	25.2	115,220
1957	74,293	68.3	34,523	31.7	108,816
1958	149,155	79.2	39,173	20.8	188,328
1959	74,980	69.6	32,756	30.4	107,736
1960	74,458	66.2	37,968	33.8	112,426
1961 3/	36,494	40.5	53,579	59.5	90,073

1/ Includes the pack of Maine and Pacific sardines. 2/ Includes sea herring. 3/ Preliminary.

SUPPLY OF FRESH AND FROZEN SPINY LOBSTERS, 1951-61

Year	United States catch 1/	Imports 2/
	Thousand pounds	Thousand pounds
1951	3,922	14,758
1952	2,419	15,813
1953	2,745	19,942
1954	2,849	19,760
1955	3,154	22,479
1956	3,849	25,258
1957	* 4,687	28,236
1958	3,588	25,938
1959	3,698	28,092
1960	3,210	32,346
1961 3/	3,200	* 32,611

1/ Round weight. 2/ Imported weight, consisting largely of tails. 3/ Preliminary. * Record.

SUPPLY OF FRESH AND FROZEN NORTHERN LOBSTERS, 1951-61

Year	United States catch				Imports		Total supply
	Maine	Other States	Total	Percent of total	Total	Percent of total	
	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1951	20,760	5,186	25,946	52	*23,558	48	49,504
1952	20,036	4,995	25,031	52	23,197	48	48,228
1953	22,300	5,815	28,115	55	22,610	45	50,725
1954	21,668	5,813	27,481	55	22,468	45	49,949
1955	22,718	6,236	28,954	56	22,962	44	51,916
1956	20,572	5,948	26,520	54	22,484	46	49,004
1957	24,403	5,752	30,155	58	22,218	42	52,373
1958	21,312	5,915	27,227	56	21,413	44	48,640
1959	22,329	6,756	29,085	58	20,635	42	49,720
1960	24,014	7,154	*31,168	59	21,403	41	*52,571
1961 1/	20,900	7,200	28,100	57	21,298	43	49,398

1/ Preliminary. *Record.

SUPPLY OF SHRIMP, 1951-61

Year	United States catch			Imports 2/		Total
	Heads on	Heads off 1/	Percent of total	Heads off	Percent of total	Heads off
	Thousand pounds	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1951	224,316	133,521	76	41,824	24	175,345
1952	227,221	135,251	78	38,471	22	173,722
1953	260,357	154,974	78	43,100	22	198,074
1954	*268,334	*159,723	79	41,519	21	201,242
1955	244,335	145,438	73	53,772	27	199,210
1956	224,173	133,436	66	68,618	34	202,054
1957	203,882	121,358	64	69,676	36	191,034
1958	213,842	127,287	60	85,394	40	212,681
1959 3/	240,182	142,965	56	110,835	44	253,800
1960 3/	249,452	148,483	56	117,568	44	*266,051
1961 4/	174,200	103,690	43	*135,232	57	238,922

1/ Converted to heads-off weight by dividing heads-on weight by 1.68. 2/ Imports for 1951-58 were considered to consist entirely of heads-off shrimp. Those for the following years were converted to heads-off weight on the basis of data contained in the table entitled, "Approximate Condition of Imported Shrimp," on page 32. 3/ Revised. 4/ Preliminary. *Record.

SUPPLY OF CANNED CRAB MEAT, VARIOUS YEARS, 1939-61

Year	United States pack	Percent of total supply	Imports	Percent of total supply	Total supply	Exports	Total available for U. S. consumption
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds
1939 . .	640	4.5	*13,507	95.5	*14,147	-	*14,147
1948 . .	4,306	76.3	1,337	23.7	5,643	73	5,570
1950 . .	2,675	39.7	4,070	60.3	6,745	20	6,725
1951 . .	2,924	59.8	1,968	40.2	4,892	47	4,845
1952 . .	1,678	44.7	2,080	55.3	3,758	33	3,725
1953 . .	2,240	36.0	3,983	64.0	6,223	20	6,203
1954 . .	3,013	51.2	2,867	48.8	5,880	19	5,861
1955 . .	1,934	28.1	4,951	71.9	6,885	19	6,866
1956 . .	2,431	30.1	5,640	69.9	8,071	17	8,054
1957 . .	3,013	32.8	6,185	67.2	9,198	29	9,169
1958 . .	2,804	32.4	5,854	67.6	8,658	(1)	8,658
1959 . .	2,942	28.7	7,304	71.3	10,246	(1)	10,246
1960 . .	4,115	47.7	4,507	52.3	8,622	(1)	8,622
1961 2/.	*4,973	54.0	4,237	46.0	9,210	(1)	9,210

1/ Data not available.
2/ Preliminary.
* Record.

SUPPLY OF FISH OILS, 1950-61

(Excluding liver, whale, and sperm oil)

Year	United States production	Imports	Total supply	Exports 1/	Available for U. S. consumption
	Thousand gallons	Thousand gallons	Thousand gallons	Thousand gallons	Thousand gallons
1950.	21,433	2,018	23,451	10,130	13,321
1951.	17,804	2,316	20,120	6,645	13,475
1952.	15,818	2,079	17,897	5,861	12,036
1953.	20,089	1,594	21,683	14,462	7,221
1954.	21,628	1,735	23,363	18,884	4,479
1955.	24,679	1,384	26,063	19,023	7,040
1956.	26,302	1,421	27,723	18,774	8,949
1957.	19,759	967	20,726	15,325	5,401
1958.	21,551	657	22,208	12,539	9,669
1959.	24,945	900	25,845	19,264	6,581
1960.	27,853	1,191	29,044	19,155	9,889
1961 2/	34,409	1,118	35,527	16,331	19,196

1/ Includes small quantities of non-medicinal liver oils.
2/ Preliminary.

SUPPLY OF FISH MEAL AND SOLUBLES, 1951-61

Year	U. S. production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1951	234,938	64.6	2/128,478	35.4	363,416
1952	256,644	55.8	2/203,539	44.2	460,183
1953	279,598	68.0	2/131,473	32.0	411,071
1954	314,482	68.1	147,584	31.9	462,066
1955	319,962	76.2	99,692	23.8	419,654
1956	360,207	79.6	92,089	20.4	452,296
1957	325,221	79.0	86,414	21.0	411,635
1958	313,228	74.3	108,167	25.7	421,395
1959	*389,231	72.5	147,392	27.5	536,623
1960	339,601	71.8	133,349	28.2	472,950
1961 3/. . .	366,892	62.3	*221,615	37.7	*588,507

1/ Includes homogenized condensed fish. 2/ Imports of meal only. Data not available on imports of solubles. 3/ Preliminary. * Record.
Note:--Wet weight of solubles and homogenized condensed fish have been converted to dry weight by reducing their poundage by one-half.

SUPPLY OF FISH MEAL, 1951-61

Year	U. S. production		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1951	209,756	62.0	128,478	38.0	338,234
1952	221,403	52.1	203,539	47.9	424,942
1953	238,851	64.5	131,473	35.5	370,324
1954	256,967	63.8	145,777	36.2	402,744
1955	264,502	73.0	98,003	27.0	362,505
1956	295,793	76.6	90,421	23.4	386,214
1957	264,085	76.5	81,196	23.5	345,281
1958	248,140	71.2	100,352	28.8	348,492
1959	306,551	69.8	132,925	30.2	439,476
1960	290,137	68.8	131,561	32.2	421,698
1961 1/. . .	*311,265	58.8	*217,845	41.2	*529,110

1/ Preliminary. * Record.

SUPPLY OF FISH SOLUBLES, 1951-61

Year	U. S. production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1951	50,364	100.0	(2)	-	50,364
1952	70,482	100.0	(2)	-	70,482
1953	81,494	100.0	(2)	-	81,494
1954	115,030	97.0	3,614	3.0	118,644
1955	110,919	97.1	3,297	2.9	114,216
1956	128,829	97.7	2,991	2.3	131,820
1957	122,273	92.6	9,709	7.4	131,982
1958	130,177	89.9	14,567	10.1	144,744
1959	*165,359	86.1	*26,630	13.9	*191,989
1960	98,929	96.9	3,174	3.1	102,103
1961 3/. . .	111,254	94.3	6,739	5.7	117,993

1/ Includes homogenized condensed fish. 2/ Data not available. 3/ Preliminary. * Record.
Note:--Imports of solubles are understood to be on a wet-weight basis except for those from the Union of South Africa, which are believed to be on a dry-weight basis.

WORLD FISHERIES

The 1960 world commercial catch of fish, crustaceans, mollusks, etc., totaled a record 83.2 billion pounds, according to the "Yearbook of Fishery Statistics, 1960" released by the Food and Agriculture Organization of the United Nations. The 1960 catch was 6 percent larger than in 1959 (78.5 billion pounds) and one third more than the 62.4 billion pounds landed in 1955. The 1960 catch was nearly double that in 1938 and 1948, just before and after World War II.

Five countries accounted for well over 50 percent of the 1960 world catch. Japan (16.4 percent) continued in first place, followed by China (Mainland) with 13.3 percent. Peru was in third place with 9.4 percent, then the U.S.S.R. (8.1 percent), and the United States (7.5 percent).

In 1956, the United States ranked second only to Japan as a fishing nation. In 1960, it followed not only Japan but also China (Mainland), Peru, and the U.S.S.R. While the United States catch has remained at about the same level since 1955, other countries have reported substantial increases. Peru's catch has risen phenomenally from only 470 million pounds to 7.8 billion pounds due chiefly to the development of the anchovy fishery. During the same 5-year period, Japan's catch increased from 10.8 billion pounds to 13.7 billion pounds; and U.S.S.R., reported an increase of a little over 1 billion pounds.

Asia, excluding the U.S.S.R., accounted for 43 percent of the world catch, Europe, excluding the U.S.S.R., accounted for 21 percent, followed by South America, 11.4 percent; North America, 10.8 percent; U.S.S.R., 8 percent; and Africa, 6 percent. The remaining catch was taken in Oceania.

About 40 percent of the world catch was marketed fresh. Reduction into meal and oil accounted for 20 percent; cured, 19 percent; canned and frozen, 9 percent each. The remaining 3 percent was used for miscellaneous purposes.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1960

(Live weight basis)

Country	Billion pounds	Percent
Japan	13.7	16.4
China (Mainland)	1/11.1	13.3
Peru	7.8	9.4
U.S.S.R.	6.7	8.1
United States	2/ 6.2	7.5
Norway	3.5	4.2
India	2.6	3.1
Spain	3/ 2.1	2.5
Canada	2.0	2.5
United Kingdom	2.0	2.4
Indonesia	1.7	2.0
Germany, Western	1.5	1.8
France	1.3	1.6
Iceland	1.3	1.6
Denmark	1.3	1.5
Union of South Africa	1.3	1.5
Philippines	1.0	1.3
Portugal	1.0	1.3
Korea, South	.7	.9
Chile	.7	.9
South West Africa	.7	.8
Netherlands	.7	.8
Pakistan	.7	.8
China (Taiwan)	.6	.7
Sweden	.6	.7
Angola	.5	.7
Brazil	1/ .5	.6
Thailand	.5	.6
Italy	.5	.6
Mexico	1/ .4	.5
Poland	.4	.4
Federation of Malaya	.4	.4
Other	7.2	8.6
Total	2/83.2	100.0

1/ 1959 data. 2/ Revised. 3/ Estimated.

Source:--Yearbook of Fishery Statistics, 1960, Volume XII, Food and Agriculture Organization of the United Nations.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY CONTINENTS, 1955 and 1960
(Live weight basis)

Continent	1955	1960	Increase (1960 over 1955)
	Billion pounds	Billion pounds	Percent
Asia (excluding U.S.S.R.)	25.5	35.4	39
Europe (excluding U.S.S.R.)	17.0	17.4	3
North America	8.7	9.0	3
U.S.S.R.	5.5	6.7	22
Africa	3.7	4.9	32
South America	1.8	9.5	433
Oceania	.2	.3	30
Total	62.4	83.2	33

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY MAJOR FISHING AREAS, 1955 and 1960
(Live weight basis)

Area	1955	1960	Increase (1960 over 1955)
	Billion pounds	Billion pounds	Percent
Marine fisheries:			
Northern hemisphere areas	42.1	49.4	17
Tropical areas	10.6	20.3	90
Southern hemisphere areas	3.0	3.9	28
Total	55.7	73.6	32
Fresh-water fisheries:			
Asia (excluding U.S.S.R.)	3.8	6.6	75
Africa (excluding U.S.S.R.)	.9	1.2	36
U.S.S.R.	1.2	.9	-25
North America	.3	.3	-
South America	.2	.3	33
Europe	.3	.3	15
Oceania	(1)	(1)	(1)
Total	6.7	9.6	44
Grand total	62.4	83.2	33

1/ Negligible.

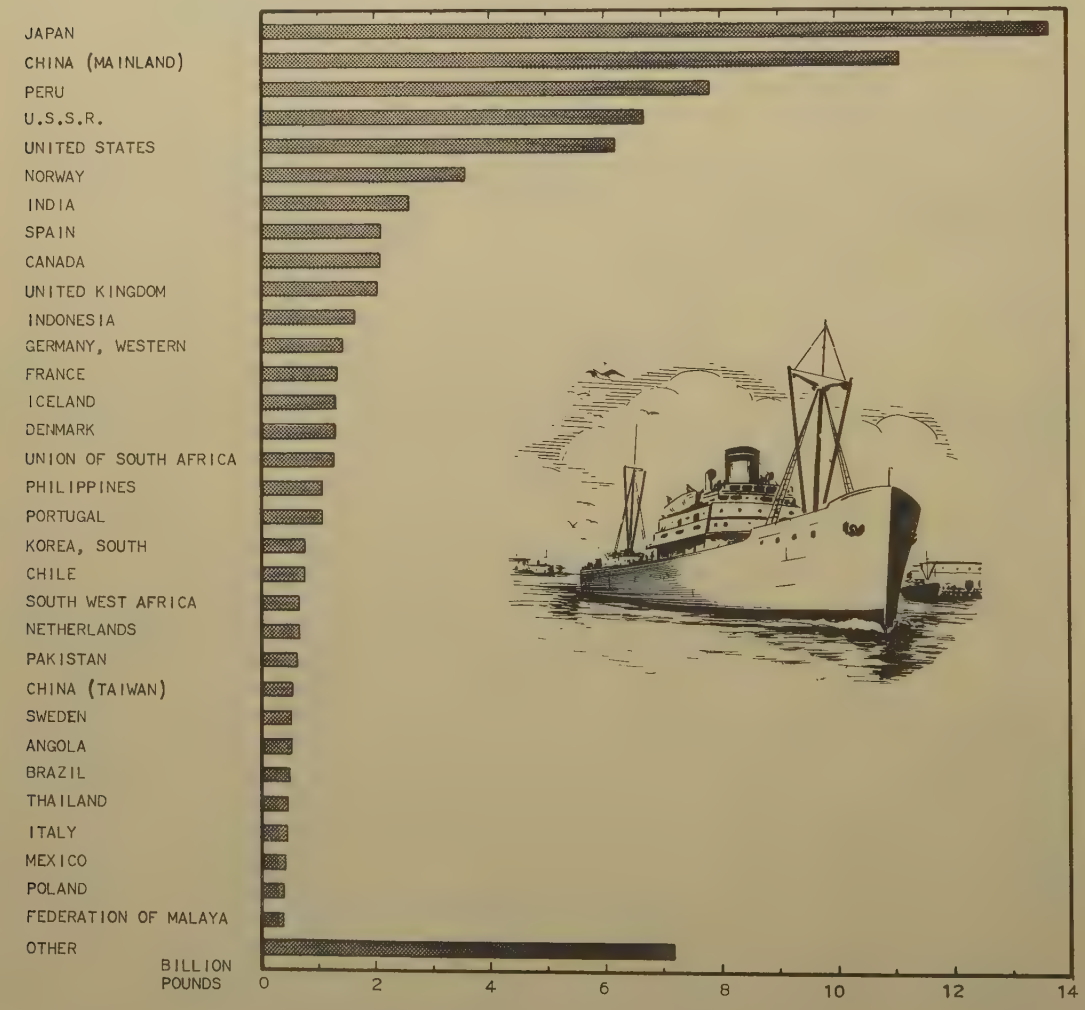
WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY SPECIES GROUPS, 1955 and 1960
(Live weight basis)

Species groups	1955	1960	Increase (1960 over 1955)
	Billion pounds	Billion pounds	Percent
Herring, sardines, anchovies, etc.	14.2	22.5	58
Mixed and unidentified fishes	10.6	14.6	37
Cods, hakes, haddocks, etc.	10.3	10.6	2
Fresh-water fishes	6.7	9.6	44
Miscellaneous marine teleosteans	6.5	8.1	24
Mollusks	4.3	5.2	22
Tunas, bonitos, mackerels, etc.	3.4	4.5	33
Flounders, halibuts, soles, etc.	1.3	2.6	100
Crustaceans	1.8	1.9	6
Salmon, trouts, smelts, etc.	1.6	1.3	-18
Aquatic plants	.9	1.2	30
Sharks, rays, etc.	.6	.9	41
Aquatic animals	.2	.2	-
Total	62.4	83.2	33

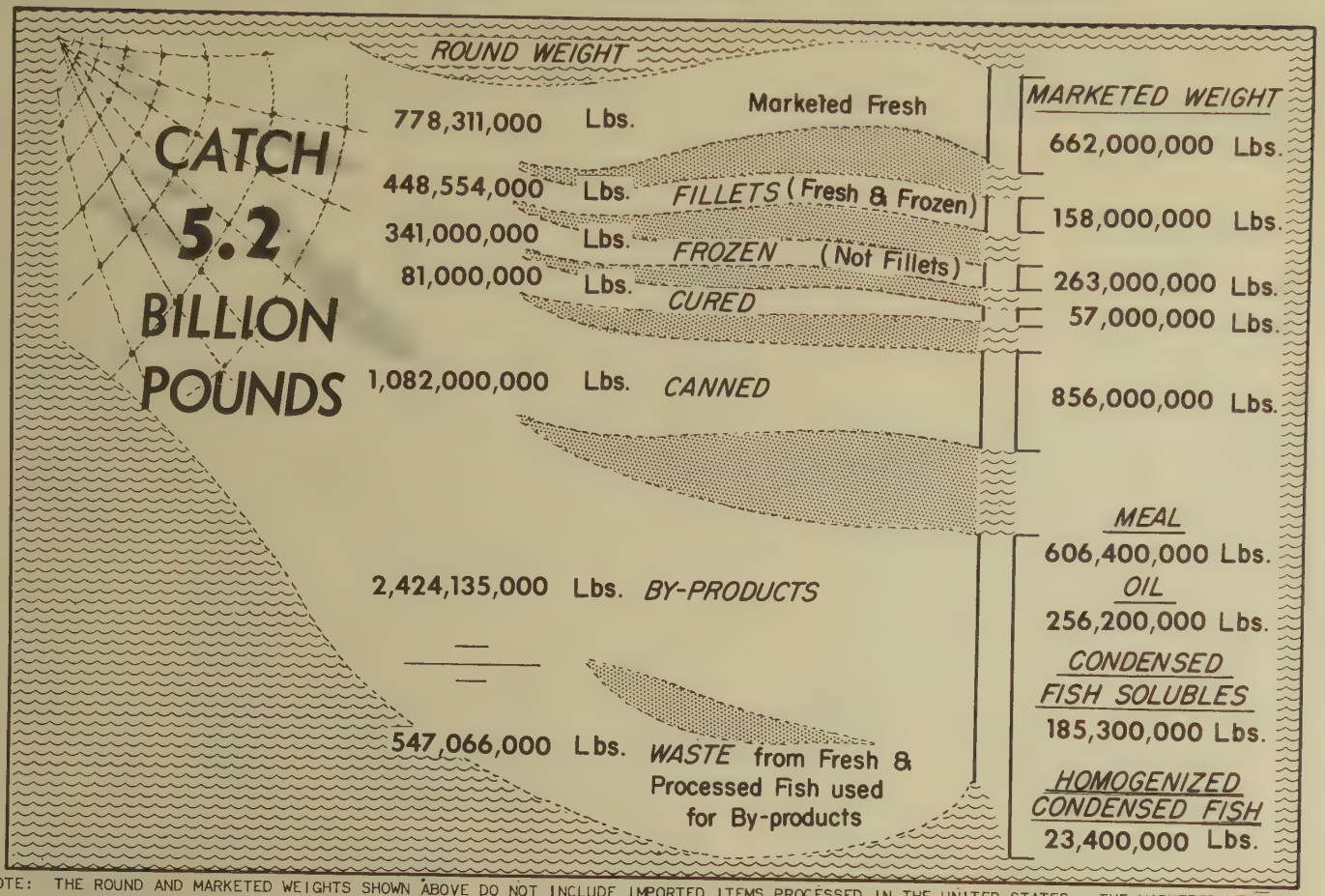
ESTIMATED USE OF THE WORLD CATCH, 1955 and 1960
(Live weight basis)

Manner used	1955	1960	Increase (1960 over 1955)
	Billion pounds	Billion pounds	Percent
Marketed fresh	26.9	33.3	24
Reduced to meal, oil, etc.	7.9	16.3	106
Cured	15.6	16.1	3
Canned	5.5	7.7	40
Frozen	4.2	7.5	80
Miscellaneous purposes	2.2	2.3	4
Total	62.3	83.2	33

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1960



FLOW CHART of the COMMERCIAL FISHERIES - 1961



NOTE: THE ROUND AND MARKETED WEIGHTS SHOWN ABOVE DO NOT INCLUDE IMPORTED ITEMS PROCESSED IN THE UNITED STATES. THE MARKETED WEIGHTS LISTED DO NOT INCLUDE FRESH BAIT, OR ANIMAL FOOD PREPARED FROM WASTE, SHELL PRODUCTS, OR OTHER MISCELLANEOUS BYPRODUCTS.

UNITED STATES DEPARTMENT OF THE INTERIOR

WASHINGTON 25, D. C.

Telephone: REpublic 7-1820 or Code 183

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6116 Arcade Building
Seattle 1, Washington
Telephone: MUtual 2-3300, Ext. 1144

Region 2 (Gulf and South Atlantic Region)

Seton H. Thompson, Director
Don Ce-Sar Federal Center
Post Office Box 6245
St. Petersburg Beach, Florida
Telephone: St. Petersburg 363-5311

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John T. Gharrett, Director
Post Office Building
Gloucester, Massachusetts
Telephone: 6411

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William F. Carbine, Director
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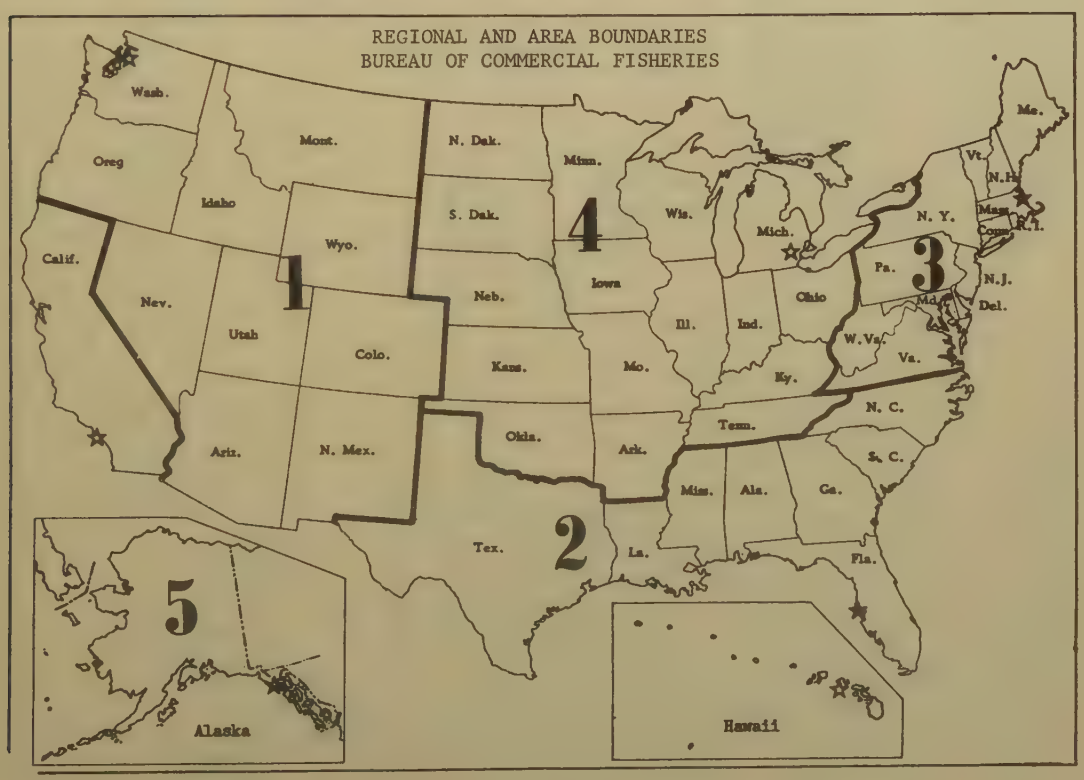
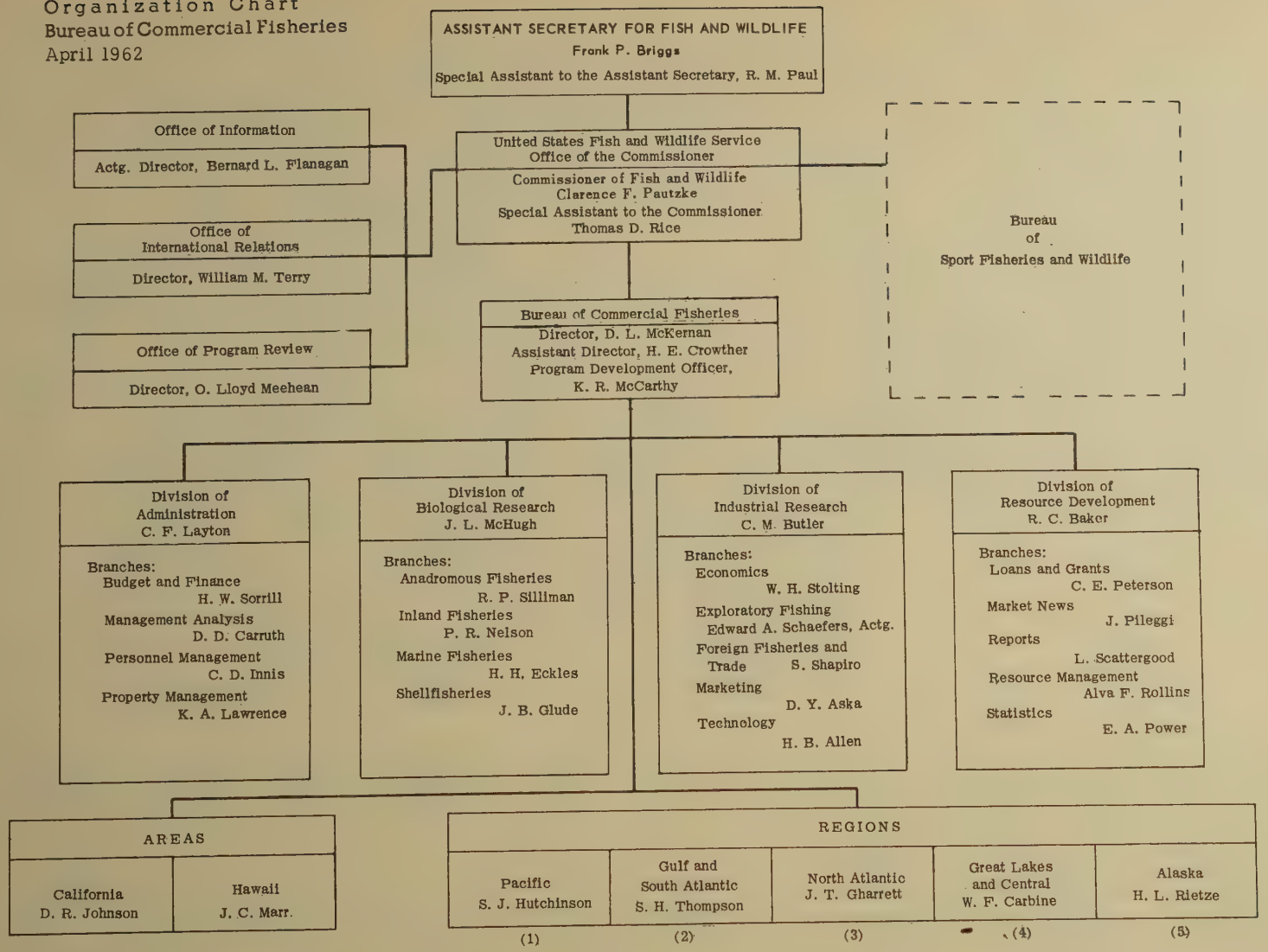
Hawaii Area Office

John C. Marr, Director
2570 Dole Street
Post Office Box 3830
Honolulu 12, Hawaii
Telephone: 9-1181



Organization Chart
Bureau of Commercial Fisheries
April 1962



TOTAL AMOUNTS AVAILABLE TO THE BUREAU OF COMMERCIAL FISHERIES AND DISTRIBUTION BY PROGRAM - FY 1961

(In thousands of dollars)

Item	Annual Definite Appropriations					Permanent Indefinite Appropriations				Contributed Funds	Reimbursement	Total Program 1961 1/
	Management and Investigations of Resources	Construction	Construction of fishing vessels	General Administrative Expenses	Administration of Pribilof Islands	Payment to Alaska, Pribilof Islands Receipts	Promote and Develope Fisheries etc.	Mortgage Insurance	Fisheries Loan Fund			
1. Management	367	-	-	-	-	-	-	-	-	-	23	390
2. Marketing and technology	2,405	-	-	-	-	-	1,934	-	-	366	210	4,915
3. Research	4,790	-	-	-	-	-	2,805	-	-	826	498	8,919
4. Research on fish migration over dams	300	-	-	-	-	-	97	-	-	-	86	483
5. Fishing vessel mortgage insurance	44	-	-	-	-	-	-	-	-	-	-	44
6. Columbia River fishery facilities	1,974	1,312	-	-	-	-	-	-	-	-	4	3,290
7. Construction of fishery facilities	-	2,292	-	-	-	-	-	-	-	-	-	2,292
8. Construction of fishing vessels	-	-	26	-	-	-	-	-	-	-	-	26
9. General administrative services	-	-	-	481	-	-	327	-	-	32	21	861
10. Administration of Pribilof Islands	-	-	-	-	1,842	-	-	-	-	-	22	1,864
11. Fur-seal research	-	-	-	-	231	-	-	-	-	-	2	233
12. Payments to Alaska from Pribilof Islands receipts	-	-	-	-	-	1,050	-	-	-	-	-	1,050
13. Federal ship mortgage insurance for fishing vessels	-	-	-	-	-	-	-	1	-	-	-	1
14. Loans to fisheries:												
Loans	-	-	-	-	-	-	-	-	1,779	-	-	1,779
Administrative expenses	-	-	-	-	-	-	-	-	217	-	-	217
15. Fisheries Advisory Committee	-	-	-	-	-	-	32	-	-	-	-	32
Total program	9,880	3,604	26	481	2,073	1,050	5,196	1	1,996	1,224	886	26,396
Prior year balance brought forward	-	-245	-		-	-	-135	-	-6,568	-143	-	-7,091
Comparative transfers from other accounts	-1,974	-1,312	-	-97	-	-	-	-	-	-	-	-3,383
Unobligated balances carried forward	-	354	-	-	-	-	260	3	6,059	143	-	6,819
Unobligated balance lapsing	20	-	724	1	26	-	-	-	-	-	-	771
Recovery of prior year obligations	-	-	-	-	-	-	-	-	-	-16	-	-16
Collection, interest on loans, etc.	-	-	-	-	-	-	-	-3	-1,486	-	-	-1,489
Unobligated balances from Corps of Engineers	-	-	-	-	-	-	-	-	-	-	-	2/ (715)
Total appropriation	7,926	2,400	750	385	2,099	1,050	5,321	-	-	1,209	866	22,007

1/ Transfer funds from the Corps of Engineers included in the appropriations Management and Investigations of Resources, Construction and General Administrative Expenses for comparability.

2/ Unobligated balances of Corps of Engineers transfer funds made available in F.Y. 1962 to Management and Investigations of Resources and Construction appropriations.

April 1, 1962

TOTAL AMOUNTS AVAILABLE TO THE BUREAU OF COMMERCIAL FISHERIES AND DISTRIBUTION BY PROGRAM - FY 1962

(In thousands of dollars)

Item	Annual Definite Appropriations						Permanent Indefinite Appropriations			Contributed Funds	Reimbursements	Budget		
	Management and Investigations of Resources 1/	Special Foreign Currency Program	Construction 1/	Construction of fishing vessels	General Administrative Expenses 1/	Administration of Pribilof Islands	Payment to Alaska, Pribilof Islands Receipts	Promote and Develope Fisheries etc.	Fisheries Loan Fund			1962	1961 1/	Difference
1. Management	369	-	-	-	-	-	-	-	-	-	-	369	390	- 21
2. Marketing and technology	2,669	125	-	-	-	-	-	1,799	-	405	255	5,253	4,915	+ 338
3. Research	6,618	175	-	-	-	-	-	2,579	-	818	490	10,680	8,919	+1,761
4. Research on fish migration over dams	924	-	-	-	-	-	-	252	-	-	80	1,256	483	+ 773
5. Fishing vessel mortgage insurance	51	-	-	-	-	-	-	-	-	-	-	51	44	+ 7
6. Columbia River fishery facilities	1,945	-	2,116	-	-	-	-	-	-	-	1	4,062	3,290	+ 772
7. Construction of fishery facilities	-	-	6,484	-	-	-	-	-	-	-	-	6,484	2,292	+4,192
8. Construction of fishing vessels	-	-	-	750	-	-	-	-	-	-	-	750	26	+ 724
9. General administrative services	-	-	-	-	482	-	-	367	-	35	13	897	861	+ 36
10. Administration of Pribilof Islands	-	-	-	-	-	1,748	-	-	-	-	20	1,768	1,864	- 96
11. Fur-seal research	-	-	-	-	-	233	-	-	-	-	2	235	233	+ 2
12. Payment to Alaska from Pribilof Islands Receipts	-	-	-	-	-	-	537	-	-	-	-	537	1,050	- 513
13. Federal ship mortgage insurance for fishing vessels	-	-	-	-	-	-	-	-	-	-	-	-	1	- 1
14. Loans to fisheries:														
Loans	-	-	-	-	-	-	-	-	2,164	-	-	2,164	1,779	+ 385
Administrative expenses	-	-	-	-	-	-	-	-	250	-	-	250	217	+ 33
15. Fisheries Advisory Committee	-	-	-	-	-	-	-	20	-	-	-	20	32	- 12
Total program	12,576	300	8,600	750	482	1,981	537	5,017	2,414	1,258	861	34,776	26,396	+8,380
Prior year balance for the program	-30	-	-1,039	-	-	-	-	-260	-6,059	-143	-	-7,531	-7,091	- 440
Comparative transfer from other accounts	-	-	-	-	-	-	-	-	-	-	-	-	-3,383	+3,383
Transfer to G.S.A.	4	-	-	-	-	-	-	-	-	-	-	4	--	+ 4
Unobligated balance lapsing	-	-	-	-	-	-	-	-	-	-	-	-	771	- 771
Balance available in subsequent years	-	-	-	-	-	-	-	-	5,245	26	-	5,271	6,819	-1,548
Recovery of prior year obligations	-	-	-	-	-	-	-	-	-	-	-	-	- 16	+ 16
Collection of loans, interest, etc.	-	-	-	-	-	-	-	-	-1,600	-	-	-1,600	-1,489	- 111
Total appropriation	12,550	300	7,561	750	482	1,981	537	4,757	-	1,141	861	30,920	22,007	+ 8,913

1/ Includes unobligated balances brought forward from the Corps of Engineers transfer funds for F. Y. 1961.

2/ Transfer funds from the Corps of Engineers includes in the appropriations Management and Investigations of Resources, construction and General Administration

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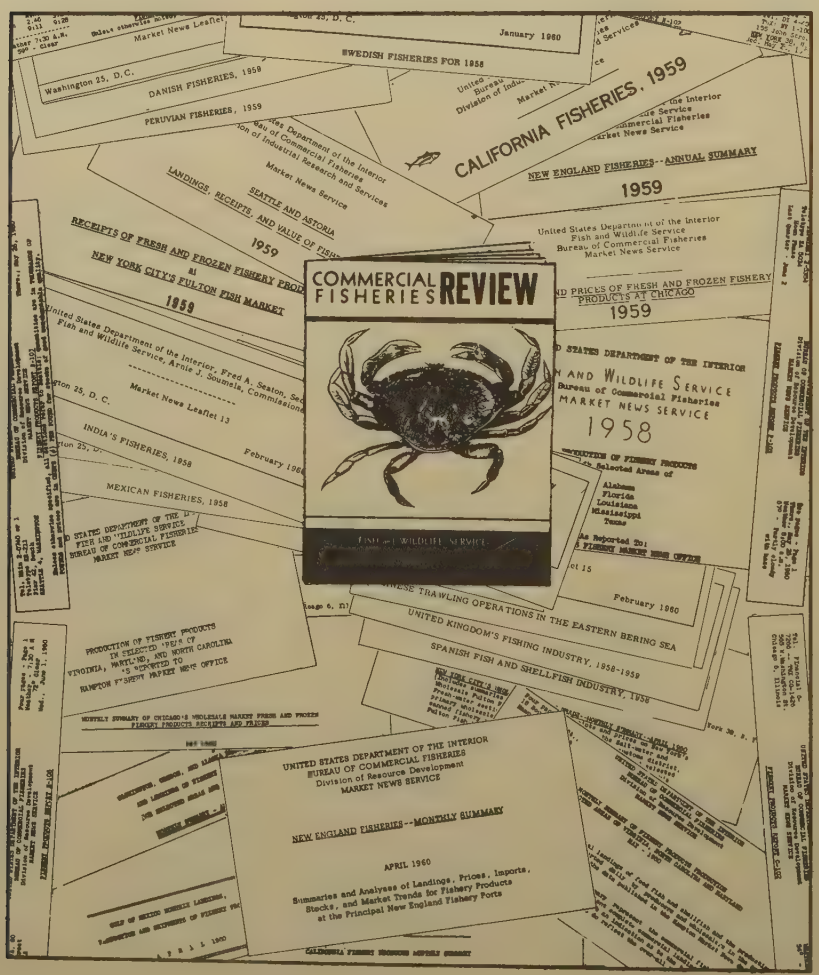
A PHOTOMONTAGE OF MANY OF THE REPORTS CURRENTLY RELEASED BY THE BRANCH OF MARKET NEWS, BUREAU OF COMMERCIAL FISHERIES


COMMERCIAL FISHERIES REVIEW
CALIFORNIA FISHERIES, 1959
NEW ENGLAND FISHERIES--ANNUAL SUMMARY
1959
SWEDISH FISHERIES FOR 1958
DANISH FISHERIES, 1958
PERUVIAN FISHERIES, 1959
LANDINGS, RECEIPTS AND VALUE OF FISH
SEATTLE AND ASTORIA
1959
RECEIPTS OF FRESH AND FROZEN FISHERY PROD
NEW YORK CITY'S FULTON FISH MARKET
1959
PRICES OF FRESH AND FROZEN FISHERY PRODUCTS AT CHICAGO
1959
AND WILDLIFE SERVICE
MARKET NEWS SERVICE
1958
INDIA'S FISHERIES, 1958
MEXICAN FISHERIES, 1958
UNITED KINGDOM'S FISHING INDUSTRY, 1958-1959
SPANISH FISH AND SHELLFISH INDUSTRY, 1958
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES
Division of Resource Development
MARKET NEWS SERVICE
NEW ENGLAND FISHERIES--MONTHLY SUMMARY
APRIL 1960
Summaries and Analyses of Landings, Prices, Imports, Stocks, and Market Trends for Fishery Products at the Principal New England Fishery Ports

The following partial listing of the Service's Publication Series is presented for the information of interested persons or organizations. Most are distributed free to persons interested in receiving them. However, some reports must be purchased. Information on how to obtain the various reports released by the Branch of Statistics and the Branch of Market News will be found on pages 57 and 58.

Fishery Statistical Publications of the Bureau of Commercial Fisheries, (Fishery Leaflet 432).--This report contains a descriptive listing of all statistical publications released by the Bureau. It catalogs in detail the many publications in the Current Fishery Statistical series; daily, monthly, and annual Market News reports; and statistical digests. It also contains listings of fishery statistical reports released by other Federal agencies, International Commissions, Interstate Compact Commissions, and non-Government fishery agencies.

Fishery Bulletins.--A series comprised of technical reports of fundamental scientific investigations, of primary interest to naturalists and researchers, relating to the biology of fishes and other aquatic animals. These reports include monographs, and reports of studies of distribution, migration, life history, and ecology (including oceanography and limnology) of aquatic organisms and populations thereof, contributions to the theory and methodology of fishery research, and papers on the scientific basis of fishery management.

Fishery Leaflets.--These are used as correspondence aids in giving information on fishes and fisheries frequently requested by correspondents.

Fishery Circulars.--This is a series which includes popular and semitechnical publications, of general or regional interest, intended to aid conservation and the management of fishery resources.

Research Reports.--A series comprised of technical papers giving the final results of scientific investigations -- biological, technological, and economic -- of primary concern to those who would apply the results. These papers include reports on stream surveys, fish-cultural or stocking methods, fishery economics, technology, nutrition, and pharmacology, advances in shellfish culture and other methods applicable to fish and wildlife management in general.

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Statistical Digests.--A series comprised of annual statistical summaries, chiefly tabular, but usually with explanatory text, relating to the fishery resources. (see page 61)

Available Leaflets on Fisheries, (Fishery Leaflet 9).--This publication is a list of fishery publications available free-of-charge from the Office of Information, U. S. Fish and Wildlife Service, Washington 25, D. C.

DETACH AND USE PAGES 60 AND 61 FOR REQUESTING PUBLICATIONS DESCRIBED IN THIS LEAFLET

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( ) SR-4 South Atlantic Fisheries
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( ) SR-7 Great Lakes Fisheries
( ) SR-8 Mississippi River Fisheries
( ) SR-9 Alaska Fisheries
( ) SR-10 United States Fisheries (Summary, operating unit, and catch statistics)

( ) MF-1 Canned Fishery Products
( ) MF-2 Industrial Fishery Products
( ) MF-3 Packaged Fishery Products
( ) MF-4 Manufactured Fishery Products
( ) MF-5 Fish Sticks and Portions (Quarterly and Annual)
( ) MF-6 Imports and Exports of Fishery Products

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( ) FM Fish Meal and Oil

( ) NA-1 Maine Landings
( ) NA-2 Massachusetts Landings
( ) NA-3 Rhode Island Landings
( ) NA-4 New York Landings
( ) NA-5 New Jersey Landings

( ) SA-1 Maryland Landings
( ) SA-2 Virginia Landings
( ) SA-3 North Carolina Landings
( ) SA-4 South Carolina Landings
( ) SA-5 Georgia Landings

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( ) GC-2 Alabama Landings
( ) GC-3 Mississippi Landings
( ) GC-4 Louisiana Landings
( ) GC-5 Texas Landings
( ) GC-6 Shrimp Landings

( ) PC-1 Washington Landings
( ) PC-2 Oregon Landings
( ) PC-3 California Landings
( ) PC-4 Hawaii Landings

( ) GL-1 Minnesota Landings
( ) GL-2 Wisconsin Landings
( ) GL-3 Michigan Landings
( ) GL-4 Ohio Landings

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